

SUPPLEMENTARY REPORT OF PUBLICATIONS HELD  
BY DIFFERENT OFFICERS.

## HISTORICAL DEPARTMENT—BIENNIAL REPORT

Year	No. on Hand	Year	No. on Hand
1893 .....	101	1901 .....	1
1896 .....	20	1903 .....	279
1897 .....	148	1905 .....	55
1899 .....	58		

## BOARD OF CONTROL

## BULLETINS OF STATE INSTITUTIONS

Year	Volume	Quarter	No. on Hand
1899 .....	I	1st .....	109
		2d .....	101
		3d .....	102
		4th .....	50
1900 .....	II	1st .....	128
		2d .....	82
		3d .....	77
		4th .....	69
1901 .....	III	1st .....	63
		2d .....	67
		3d .....	65
		4th .....	57
1902 .....	IV	1st .....	91
		2d .....	128
		3d .....	83
		4th .....	85
1903 .....	V	1st .....	107
		2d .....	95
		3d .....	131
		4th .....	52
1904 .....	VI	1st .....	109
		2d .....	105
		3d .....	205
		4th .....	5
1905 .....	VII	1st .....	177
		2d .....	665
		3d .....	593
		4th .....	452

## TWENTIETH ANNUAL REPORT

OF THE

## State Dairy Commissioner

TO THE

GOVERNOR OF THE STATE OF IOWA

FOR THE YEAR 1906

H. R. WRIGHT

STATE DAIRY COMMISSIONER

PRINTED BY ORDER OF THE GENERAL ASSEMBLY

DES MOINES:  
EMORY H. ENGLISH, STATE PRINTER.  
1907

LETTER OF TRANSMITTAL.

---

*To His Excellency, Albert B. Cummins, Governor of Iowa:*

SIR—In compliance with the law, I have the honor to submit herewith the Twentieth Annual Report of the Food and Dairy Commissioner.

Very respectfully,

H. R. WRIGHT,

Food and Dairy Commissioner.

DES MOINES, November 9, 1906.



EXPENSES OF OFFICE OF DAIRY COMMISSIONER FOR THE  
YEAR ENDING NOVEMBER 1, 1906.

Dairy Commissioner's salary .....	\$ 1,666.64	
Dairy Commissioner's expense .....	546.85	\$ 2,213.49
Deputy Dairy Commissioner's salary .....	\$ 1,200.00	
Deputy Dairy Commissioner's expense .....	82.98	\$ 1,282.98
Assistant Dairy Commissioner's salary .....	\$ 1,200.00	
Assistant Dairy Commissioner's expense .....	1,069.87	\$ 2,269.87
Assistant Dairy Commissioner's salary .....	\$ 1,200.00	
Assistant Dairy Commissioner's expense .....	981.36	\$ 2,181.36
Clerk's salary, four months .....	\$	300.00

OFFICE EXPENSES.

Legal expenses .....	\$ 75.00	
Chemical analyses .....	10.00	
Printing dairy laws .....	25.00	
Babcock tester .....	28.40	
Repairs on typewriter .....	3.25	
Butter test bottles and triers .....	13.40	
Notary commission and seal .....	7.00	
Filing cabinet and cards .....	50.65	
Oleo samples .....	1.15	
Kalamazoo copier .....	5.00	
Laboratory books .....	54.00	
Commissioner's seal .....	2.00	
Repair on laboratory oven .....	1.50	\$ 274.35
Express, freight and cartage .....		53.68
Telegraph and telephone .....		20.25
	\$	9,795.98
* Less salaries .....		5,566.64
	\$	4,229.34
Less rebates on mileage .....		390.00
Total .....	\$	3,839.34
Average monthly expense .....		319.94

\* Salaries are not paid from the specific appropriation. The amount of the appropriation July 1, 1906, to July 1, 1907, was \$5,400.

## REPORT OF THE COMMISSIONER.

The condition of the dairy industry in this State has never been better than it is at present, and the prospects for further improvement and increases are very bright. The disturbing factors of competition with creameries of the new kind and the uncertainty of the effects of new methods of doing business seem to have become quite well understood, and there is a feeling of certainty and stability on the part of managers of both the small creameries and the larger ones. The number of creameries that have closed this year is very small. This fact is significant, when it is remembered that more than 350 creameries have been closed up in the last four years.

The same feeling of the permanence of the industry is found among the producers of milk and cream in every section of the State and the outlook is good for continued increases in number of dairymen, in the size of their herds, in their per capita production, as well as for continued prosperity on the part of the manufacturer of the butter.

For a good many years the farmers of this State have almost unanimously used the Shorthorn cow in their dairy herds, and they have nothing to regret for having done so under the existing conditions. There has, however, lately been a considerable demand for dairy breeds of cattle, particularly of the larger breeds. This office has had a good many inquiries as to where grade dairy cows might be purchased in carload lots. The same kind of inquiries come in large numbers to the professors at Ames, and, of course, it is impossible for one to secure Holsteins, Jerseys, Guernseys, or other dairy cattle in large quantities in any one place in this State. A very large number of our dairymen are purchasing Holstein sires and starting dairy herds.

The following table shows the production of oleomargarine in the United States for the last five years:

1902 .....	126,316,472
1903 .....	71,804,102
1904 .....	48,071,480
1905 .....	49,880,982
1906 .....	53,146,659

As previously pointed out, very little of this oleomargarine is sold in Iowa, the number of licensed dealers being usually about a dozen

and their trade very small and carried on in strict accordance with the Iowa statute, but whatever oleomargarine is made goes into competition at once with Iowa butter and displaces an equivalent amount of butter in this country. The dairy people of this State are therefore vitally interested in the enforcement of oleomargarine laws. They should take notice that the manufacturers of oleomargarine are now urging the sale of uncolored oleomargarine on its merits as a proper cheap food product. They should further take notice that oleomargarine does not compete in any sense whatever with fancy, high-class butter. That it is an increasingly strong competitor of that butter which, by reason of its poor quality, must be sold for a relatively low price, and that the oleomargarine interests will be very much favored by a continued production of a large percentage of poor quality butter.

#### NEW CREAMERY BUILDINGS.

Iowa has been in the creamery business so long that a very large number of creameries have become old and dilapidated. The last several years have been years of uncertainty and a considerable number of creamery companies, realizing that their building and apparatus were not altogether suitable, have yet feared to rebuild, until conditions might point to considerable more of permanence in their patronage and certainty that the amount of product that they could rely upon would be sufficient to warrant increased expenditures. The Commissioner is glad to note that a very considerable number of substantial brick or cement creameries have been built during the last season to take the place of the old worn-out plants. This indicates not only a progressive spirit but a belief that conditions are about as they will continue, that the smaller creameries believe that they will be able to compete with all the creameries of every kind that they have yet known.

In a good many cases the new building is upon a different site than the old one. Unfortunately, a good many creameries have been built in places that were entirely unsuitable. Too many were erected upon the most worthless piece of land in the community. Too many have found that a half-mile drain was demanded, or that the water supply and the outlet to the drain were in too close proximity. But these things are difficult to remedy after the building is erected. The most important particular in creamery building is the question of

drainage. Unless the drainage is perfect, continued and increasing trouble is sure to result. The most difficult problems presented to this department are those of drainage for the creamery. For some of them there is no solution. A good many new creameries will doubtless replace old ones in the next two or three years and the suggestion is here made that whatever the plans for rebuilding they must embrace suitable facilities for drainage as a first requisite.

#### NEW DAIRY LAWS.

##### I.

Be it Enacted by the General Assembly of the State of Iowa:

Section 1. That every owner, manager or operator of a creamery shall before delivering to any person any skimmed milk cause the same to be pasteurized at a temperature of at least one hundred and eighty-five (185) degrees Fahrenheit.

Section 2. Whoever violates the provisions of this Act shall, upon conviction, be liable to a fine of not less than Twenty-five Dollars nor more than One Hundred Dollars.

##### II.

Be it Enacted by the General Assembly of the State of Iowa:

Section 1. It shall be unlawful for the owner, manager, agent or employe of a cheese factory, creamery or condensed milk factory to falsely manipulate or under-read or over-read the Babcock test or any other contrivance used for determining the quality of milk or cream, or to make any false determination of the said Babcock test or otherwise.

Section 2. Whosoever shall violate any of the provisions of this Act shall, upon conviction thereof, be fined not less than Twenty-five Dollars nor more than One Hundred Dollars.

##### III.

Be it Enacted by the General Assembly of the State of Iowa:

Section 1. The State Food and Dairy Commissioner and his deputy and assistants shall have full access to all places of business, factories, buildings, wagons and cars used in the manufacture, sale or transportation within the State of any dairy products or any imitation thereof.

Section 2. They may examine and open any package, can or vessel containing, or believed to contain, any article or product which may be manufactured, sold or exposed for sale in violation of the laws of this State relative to the dairy products and imitation thereof, and may inspect the contents therein and take therefrom samples for testing or analysis.



Section 3. Whosoever shall refuse to allow the inspection herein provided for or shall in any way hinder or obstruct the proper officers performing their duties hereunder shall be punished by a fine not exceeding one hundred (100) dollars or by imprisonment in the county jail not exceeding thirty (30) days.

#### Purchase or Sale of Unwholesome Milk or Cream.

From Chapter 10, Title 24, Code.

Section 4989. Sale of impure or skimmed milk—skimmed milk cheese—labeling—purchase of unwholesome milk or cream.—If any person shall sell, exchange, or expose for sale or exchange or deliver or bring to another, for domestic or potable use, or to be converted into any product of human food, any unclean, impure, unhealthy, adulterated, unwholesome or skimmed milk, or milk from which has been held back what is commonly known as strippings, or milk taken from an animal having disease, sickness, ulcers, abscess or running sore, or which has been taken from the animal within fifteen days before or five days after parturition; or if any person shall purchase, to be converted into any product of human food, any unclean, unhealthful, adulterated or unwholesome milk or cream, or shall manufacture any such milk or cream into any product of human food, \* \* \* he shall be fined not less than twenty-five nor more than one hundred dollars, and be liable for double damages to the person or persons upon whom such frauds shall be committed. \* \* \*

This section of the Iowa dairy law has been changed by the introduction of the words italicized and the effect is to make the buyer of bad cream equally responsible with the seller of it, to provide a penalty for the purchase to be made into product of human food of any unclean, unwholesome, unhealthy or adulterated cream or milk. Since the advent of the central creamery competition among the creameries has been very sharp and while every creamery operator desires to have the best of the product yet the necessity of getting volume of business has tempted not a few to receive and pay for cream from which no product of human food ought ever to be made. As previously pointed out this bad practice was a practical inducement to the producer to bring to market cream that was bad or worse. The former law provided a penalty for the seller of bad cream or milk but the law was scarcely ever enforced for the reason that the buyer of it was the real guilty person. A few prosecutions have been made under this amended law and fines have been inflicted both upon purchasers and sellers of both unwholesome milk and cream, but the experience of the last summer has led to the belief that the quality of milk and cream delivered to the creameries and shipping agents in this State will not attain that high quality that it ought to have until

a much more complete inspection can be made of it than is now made with the small force at the command of this office.

The hand separator has thoroughly proved its usefulness in this State but it came into use accompanied by theories inimical to good dairying. The salesmen claimed too much for the machine. Too often the producer was assured that washing once a week was all that was necessary, and that cream delivered once a week was plenty good enough. These theories are absurd, of course, but they have been followed by enough people so that hand separator butter is at a discount everywhere, and too many commission men have an idea that it is an impossibility to make the highest class of butter out of cream separated at the farm. The fact that poor qualities of cream make poor grades of butter and lose money for the manufacturer and especially for the producer, that the reputation of the State suffers by reason of second-class products, has not seemed to impress either the producer or the manufacturer. So the statute was amended and prosecutions followed. It remains to be seen whether this practice will result in much good.

This law is more or less unpopular. It is difficult to secure conviction unless the case is an extreme one. Hence it will be impossible to eliminate by prosecutions any but the extreme cases of sale or purchase of unclean milk or cream. There will still be plenty of milk and cream sold that will not come up to the highest standard and yet will not be such as is condemned by the statute.

In the report of a year ago this department urged the grading of cream for butter-making purposes, the purchase of it on grade and the payment therefor in strict proportion to its real value. Early last spring the centralizers agreed on a basis for grading cream and payment for the same substantially as follows:

No. 1 grade consists of hand separator cream delivered at least twice a week in cold weather and three times a week in warm weather, free from all bad flavors and testing not less than 30 per cent.

No. 2 grade consists of hand separator cream testing less than 30 per cent and delivered less frequently than required for first grade.

Gravity and water separator cream not desired at all.

This basis of frequency of delivery and percentage of test is not the proper basis for grading of cream for quality but was a practical working basis for the creamery buying through agents and shipping to the central plant by rail. The proper basis for grading is, of course, the quality, the cleanliness and general state of excellence



of the product, yet for butter-making purposes a high-testing cream is of more value than the same amount of fat in lower testing cream, and the man who delivers his cream every other day is a good deal more likely to take good care of it than he is if he may bring it once a week or less often. Hence this attempt has resulted in bettering the grade of cream received at the central plants. But the competition was too strenuous for some of them and they have gone back to that system of paying a uniform price for any and all kinds of cream, a system that practically pays a premium on poor cream, and pays the man who produces good cream less than it is worth, the system that resulted in the present undesirable conditions and which will still further accentuate them. If the creamery operators could actually pay for cream upon its real value and continue to do so for a year they would have solved the problem of how to get better raw material. But, of course, the experience of the last few years convinces that they will not practice real grading of cream in any large number of cases so long as present conditions exist.

The following circular letter has been prepared by this department and has been re-printed by a large number of creameries and thoroughly circulated among their patrons:

To Creamery Managers, Cream Purchasing Agents and Producers of Milk and Cream:

The statutes of this State authorize a fine of not less than \$25 nor more than \$100 for the sale, purchase, or use of any **unclean, unhealthful, adulterated or unwholesome** milk or cream to be converted into any product of human food.

It is made the duty of the Dairy Commissioner to enforce this statute, and creamery managers, cream purchasing agents and producers of milk and cream are therefore warned that, in every case where evidence of violation of this law can be secured, this department will cause the prosecution of both the seller and the purchaser of unclean or unwholesome milk or cream.

The Commissioner and his assistants are constantly investigating the quality of cream at the creameries, the receiving stations and while en route by rail or otherwise and the law will be enforced as vigorously and completely as possible.

The producer of bad cream, even though it is saleable, loses money; he causes immensely greater losses to other producers whose better product is contaminated by his bad stuff; and he causes still greater losses to the State as a whole because the reputation of the State suffers. These losses are inexcusable because the production of good milk and cream is a comparatively easy matter. There is necessary only cleanliness, low temperatures, frequent delivery.

So far as possible this department will insist that

1. Hand separators shall be washed immediately after each time they are used. This is extremely important.

Cream must be cooled before mixing with cold cream.

Cream must be held at a low temperature in cold water both summer and winter.

Cans in which milk or cream is delivered must be clean.

2. Cream must be delivered at least every second day in summer and every third day in winter, and must, when delivered, be clean and wholesome as required by the statute.

Cream that is sweet and clean and of high test is worth about three cents per pound of fat more for butter-making purposes than cream that is old and sour and of low test. This department endorses the principle of paying for cream on grade and urges its general adoption both by the centralizer and the local creamery operator. The principle is not only right from a business standpoint but its practice will tend to better cream and greater profits for producer and manufacturer of dairy products.

Respectfully,

H. R. WRIGHT,  
Commissioner.

Creamery operators are at liberty to have this circular letter printed for distribution among their patrons, or in the newspapers of the community.

## GROWTH OF THE CENTRALIZING IDEA.

The creameries of this State report having made, for the year ending July 1, 1906, more than 90,000,000 pounds of butter. If the reports were actually complete, the figures would doubtless show 95,000,000 pounds of butter, perhaps 100,000,000 pounds. Of this butter, 24,149,774 pounds are made in nineteen creameries of the State, not counting any centralizing creameries making less than 500,000 pounds of butter. This butter is all made from cream, as distinguished from milk, and nearly all of these creameries receive the bulk of their product by rail, either in direct shipments from the patrons, or shipments of cream purchased through agents, or contracted for at local creamery plants. In addition to the above creameries, three creameries in the State, at Jesup, Strawberry Point and Lake Mills, each make more than a half-million pounds of butter. The number of creameries making 250,000 to 500,000 pounds of butter is very large. The number of creameries making less than 150,000 pounds of butter is very small. The creameries of this State have nearly all learned that economy in manufacture is pos-

sible only when the amount of butter made is above 150,000 pounds per annum. Having learned this fact, the number of smaller creameries now receiving cream from distant points has very greatly increased during the last twelve or fifteen months. The product of the larger central factories has not very much increased. The increase in production has been in the number of smaller centralizing plants or in smaller individual or co-operative plants that have gone after the business at an increased distance from the factory, a practice which makes them, in some sense, centralizers. There can be little doubt that the shipping of cream by rail, or its transportation otherwise, for considerable distances, is a part of the creamery system in Iowa that has come to stay, and the successful creamery will be the creamery whose management has energy and enterprise sufficient to get a considerable quantity of cream so that the plant shall make a much larger average amount of butter than has been the case with our successful creameries heretofore. The average creamery of this State, counting out the centralizers mentioned above, makes about 140,000 pounds of butter per annum. In 1903, their average production was 97,000 pounds; in 1904, 112,000 pounds; in 1905, 118,000 pounds.

#### CREAM SHIPPING RATES TO POINTS OUTSIDE THE STATE.

A new feature in the centralization of the cream business has been the establishment of creameries in Chicago which derive their cream from points several hundred miles from that city. These creameries have entered Northeastern Iowa and by reason of very favorable freight rates they have been able to compete not only with Iowa centralizers, but also with the smaller creameries of the State. These favorable rates were given them only by the Illinois Central Railroad and the Chicago Great Western Railroad, both of which roads touch the northeastern dairy district with considerable mileage. Similar situation is maintained in regard to shipments to St. Paul over these two roads, and to St. Joseph, Leavenworth and Kansas City over the Chicago Great Western Railroad. We give a table below showing a comparison of rates on cream shipments. Cream and milk in cans take a second-class freight rate according to Iowa freight classifications. The rate when shipped on passen-

ger trains is about eight or ten per cent higher than first-class freight rate and cans are returned free.

Miles	Second Class Freight Rates	Distance Tariff	Former Rate to Chicago
5	11.9 cents	19 cents	
25	14.45 "	20 "	
50	17. "	21 "	
60	17.68 "	22 "	
65	18.02 "	23 "	
70	18.36 "	24 "	
75	18.7 "	25 "	
80	19.04 "	26 "	
90	19.72 "	28 "	
100	20.4 "	30 "	
110	21.38 "	32 "	
120	22.36 "	34 "	
130	23.34 "	36 "	
140	24.32 "	38 "	26 cents
150	25.3 "	40 "	28 "
160	26.28 "	42 "	32 "
170	27.26 "	44 "	34 "
180	28.24 "	46 "	35 "
190	29.22 "	48 "	35 "
200	30.2 "	50 "	35 "
250	35.10 "	55 "	36 "
300	40. "	60 "	38 "
360	43. "	63 "	40 "
400	45. "	65 "	41 "
460	48. "	68 "	42 "
500	50. "	70 "	43 "

A regular distance tariff was maintained on these roads no matter to what point the cream was shipped except in the case of Chicago, St. Paul, Leavenworth, St. Joseph and Kansas City. A very large number of creameries in Iowa receive cream by rail, and any rate which is favorable to a point outside the State is a detriment to the business of such Iowa creameries as use the railroads in securing their raw product. Not only is this true in regard to centralizing business but the favorable rates make greater and fiercer competition for the local creamery. It seems preposterous to ship so bulky a product as cream two or three hundred miles to Chicago to manufacture when every dictate of economy requires that the same be manufactured as near to the point of production as possible. The rates on cream to Chicago particularly have in a good many cases been nearly or quite as low as the rates on the butter after its manufacture. That is to say, the Chicago manufacturer



of butter could ship his butter fat to Chicago in the form of cream cheaper than the Iowa centralizer or creamery operator could ship his butter to Chicago in tubs. Chicago is about 170 miles by rail from Dubuque, the nearest Iowa point. The rates on cream have been such that one could ship a can of cream to Dubuque from Fort Dodge and on the same train another can of cream to Chicago; on the shipment to Dubuque he would pay 49 cents for a ten-gallon can; to Chicago either over the Great Western or the Illinois Central he would pay 40 cents; or for the 49 cents he could ship a can of cream from Council Bluffs to Chicago. The creameries that were actually affected by these favorable rates made complaints to the officials of these roads, to which complaints were added considerable correspondence by this department, and on October 19th and November 1st, respectively, the roads set aside their former tariffs to Chicago, and authorized the use of the distance tariff only as given above, a change which compels all shippers of cream to pay freight in proportion to the distance, whether the same be shipped to Des Moines, Dubuque or some other point outside the State. We are informed that this change of rates is to be permanent.

#### AVERAGE WAGES OF BUTTERMAKERS.

Reports of monthly wages paid 460 buttermakers of the State show an average salary of \$69 per month. Nearly all of our creameries are operated the full twelve months and the average annual wages of the buttermakers is somewhere from \$800 to \$850, an increase of about \$75 to \$90 a year over the increase shown in the last annual report, and an increase of \$225 annual average wages over the wages paid five years ago. The increased size of the creameries, the greater value of their product, as well as the greater demands for ability and skill on the part of the buttermaker, have brought about this increase in wages paid. While \$69 is the average wages, \$100 a month is a common figure for first-class buttermakers in first-class creameries, and the State has lost several buttermakers at much higher salaries. The facts indicate that the buttermaker of skill and experience and good record is easily able to demand wages much in excess of the average.

#### WORK OF THE ASSISTANT DAIRY COMMISSIONERS.

The State of Iowa has a larger number of creameries than any other single State, and the smallest number of inspectors of any State. In the last twelve months the two assistant commissioners have been able to visit 447 creameries and 51 cream purchasing stations. Some of these visits were necessary duplications, and it is evident that with between six hundred and seven hundred creameries and approximately 1,500 cream purchasing stations, the work of the assistant commissioners is only a fragment of the work that ought to be done.

The State was unfortunate in the loss of both assistant commissioners, Mr. P. H. Kieffer and Mr. W. S. Smarzo, last spring. Both of these gentlemen received offers of employment in New York City, Mr. Smarzo as Government inspector, Mr. Kieffer with a large commission firm, at salaries far in advance of the salaries here. Mr. W. B. Johnson, of Monticello, and Mr. F. L. Odell, of Greenfield, were appointed as their successors, and their work has met with the approval, not only of the Dairy Commissioner, but of the butter-making interests generally. Considerable amount of work has been done, particularly during the summer season, in the enforcing more rigidly the statutes in regard to maintenance of creamery and premises and apparatus in a clean and hygienic condition. The policy has been to point out to the creamery management the changes necessary to make the condition of the plant in conformity with the requirements of the law and to give a reasonable time for such compliance. This necessitated a second visit to the creamery, at which time the assistant commissioners were instructed to proceed to inflict penalties, if the conditions were not improved.

The assistant commissioners have also tested shipments of cream billed to the various centralizing plants and the office has later received statements from the shipper of his receipts, and correspondence was undertaken, resulting in fewer differences in regard to tests of cream. The volume of this kind of work done has been very small, but the work will be more largely carried on in the future.

The inspection of butter in the Chicago and New York markets by Government officials, with a view to pointing out to the manufacturers the faults that appear in their butter on the market is an experiment which bids fair to be of value to buttermakers generally. The assistant commissioners have "followed up" the reports made



by these Government inspectors and if this co-operation could be carried out to sufficient extent, it would be very valuable to butter-makers who ship to these markets.

In order to make effective the inspection of milk and cream, and for the purpose of enforcing the law, requiring the sale and purchase of clean, wholesome milk and cream only, the Commissioner and his assistants are given authority to open any can of cream or milk, or other package containing any dairy products, or imitations of them, and to take samples for analysis. This makes easy the determination of the quality of the product without working any hardship upon the owner of it.

### PASTEURIZATION OF SKIMMED MILK.

The following law was enacted by the last General Assembly, and became effective July 4th, last:

#### I.

Be it Enacted by the General Assembly of the State of Iowa:

Section 1. That every owner, manager or operator of a creamery shall before delivering to any person any skimmed milk cause the same to be pasteurized at a temperature of at least one hundred and eighty-five (185) degrees Fahrenheit.

Section 2. Whoever violates the provisions of this act shall, upon conviction, be liable to a fine of not less than Twenty-five Dollars nor more than One Hundred Dollars.

Under this law the managers or operators of five creameries have paid fines of \$25.00 and costs each for violating same. This department did not attempt to inflict fines upon creamery operators who were merely dilatory about arranging to pasteurize skimmed milk until about the 1st of September. The notifications sent out were in a few cases absolutely ignored, apparently on the theory that the law was simply someone's fad, and that the same would not be enforced, hence prosecutions were absolutely necessary to make it appear that the law was intended for the proper purposes and that the department was expected to enforce it. The Commissioner very much regrets this necessity.

The necessity for legislation for the suppression of tuberculosis in farm animals has been apparent for several years to a large number of interested persons. One of the most frequent allegations was that the skimmed milk from the creamery was the cause of increased

tuberculosis in hogs. For a number of years packers whose hogs are killed under the eye of a competent Government inspector have found their losses by reason of tuberculous hogs increasing in proportion. They uniformly assert at the present time that their regular loss by reason of tubercular hogs for which they have paid full price runs from one to two per cent; that from dairy localities the percentage is higher than elsewhere; that skimmed milk and butter-milk fed hogs show the highest percentages of tuberculosis. Of course the farmer receives nothing less for his hogs to cover this loss to the packer, but even so small a percentage as two per cent is a very great item figured on the aggregate value of Iowa hogs, and the fact that the disease increases among hogs is alarming. Dairymen should be interested in movements for suppression of animal diseases. Their product depends largely upon its reputation for wholesomeness, and we cannot afford to omit any act which tends to keep up the general reputation of our product. For this reason passage of the law requiring pasteurizing of skimmed milk was secured from the Legislature.

Most Iowa hogs are marketed before they are a year old. Tuberculosis in hogs does not show its effects so far as the general appearance of the live animal is concerned. It can only be detected by the tuberculin test, or by inspection after slaughter. Because the discovery of this disease in the live animal is almost impossible, farmers are inclined to doubt the prevalence of the disease, but a visit to one of the Iowa packing houses will show too large a number of slaughtered animals hung up in the room for tuberculous hogs. Farmers of this State now lose more than a million dollars annually by reason of this disease in swine. It has been proven experimentally over and over again that hogs fed on milk from tuberculous cows readily contract the disease. It follows, then, that the distribution of skimmed milk at a creamery results in the spreading of the infection to every farm which patronizes the creamery, and other means for checking tuberculosis in hogs must be found when the hogs are fed upon the infected milk from the neighborhood creamery.

The Dairy Commissioner's report of a year ago showed that more than half the milk creameries of the State were voluntarily pasteurizing their skimmed milk before returning to the patron, yet the passage of the present law and attempt at enforcement raised very great opposition. Various objections were raised to the practice. The creameries pasteurizing skimmed milk complained that

it made the milk stringy and ropy; that pasteurized skimmed milk sours quicker than unpasteurized; that it makes the calves sick; that the heating destroys the feeding value, and lastly, that it is absurd to care for the health of hogs when no effort is made to prevent the spread of tuberculosis by the use of the butter made from tuberculous milk. None of these objections are well founded. If heating skimmed milk makes it stringy and ropy it is because the milk was nearly or quite sour before being pasteurized, a condition in which it ought not to come to the creamery. The heated milk does not sour quicker than the unheated. More than half the creameries of the State practice the heating of skimmed milk for the very purpose of lengthening the time that it would keep sweet. If heating milk makes calves sick, it is fed to them hot and they are scalded. The heating of skimmed milk does not lower the feeding value of the milk whatever. Lastly, the germs of tuberculosis do not thrive in butter, and are seldom found even in the fresh butter immediately from the churn.

The law requiring the pasteurization of skimmed milk is a proper law, and while it does not, by any means, cover the whole of a difficult problem, it is a considerable step in the right direction, and the creameries of this State should render cheerful obedience to the same. The Dairy Commissioner is required to enforce this statute, and expects to do so.

TABLE No. I.

SHOWING AVERAGE MONTHLY PRICE OF FANCY WESTERN CREAMERY BUTTER IN NEW YORK MARKET.

Month	Twelve months ending Nov. 1, 1887	Twelve months ending Nov. 1, 1888	Twelve months ending Nov. 1, 1889	Twelve months ending Nov. 1, 1890	Twelve months ending Nov. 1, 1891	Twelve months ending Nov. 1, 1892	Twelve months ending Nov. 1, 1893	Twelve months ending Nov. 1, 1894	Twelve months ending Nov. 1, 1895	Twelve months ending Nov. 1, 1896
November	\$ .2112	\$ .2325	\$ .2287	\$ .2600	\$ .2487	\$ .2412	\$ .2630	\$ .2317	\$ .2481	\$ .2320
December	.2250	.2250	.2169	.2720	.2540	.2510	.2920	.2423	.2928	.2480
January	.1900	.2040	.1975	.2650	.2262	.2425	.2762	.2270	.2919	.2630
February	.2050	.2042	.2100	.2500	.2250	.2862	.2600	.2517	.2218	.2700
March	.1900	.1857	.2075	.2350	.2212	.2940	.2960	.2452	.2807	.2700
April	.1880	.1880	.1962	.1960	.2009	.2825	.2725	.2284	.3008	.2188
May	.1550	.1580	.1780	.2012	.1900	.2275	.2200	.2072	.2371	.2017
June	.1687	.1580	.1881	.1950	.1925	.2105	.2160	.1963	.2049	.2022
July	.1500	.1687	.1835	.1960	.1960	.2131	.2012	.1767	.2056	.2062
August	.1675	.1860	.2000	.2100	.2050	.1960	.1940	.1776	.2111	.2227
September	.1880	.2023	.2262	.2150	.2110	.2170	.2075	.1947	.2068	.2452
October	.2230	.2235	.2400	.2190	.2200	.2262	.2100	.2005	.2184	.2611
Average val. per lb. for each year	\$ .1885	\$ .1971	\$ .2065	\$ .2278	\$ .2165	\$ .2416	\$ .2417	\$ .2140	\$ .2487	\$ .2375

## CITY MILK INSPECTION.

The growth of the city milk inspection in this State is indicated by the following table showing the number of permits for milk dealers issued in the years from 1895 to 1906. The years end in every case on the 4th of July:

1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906
491	566	620	574	676	714	784	821	783	780	827	893

Cities	Population	Inspectors
Burlington	25,818	C. T. Griggs.
Cedar Rapids	28,739	Dr. J. W. Griffith.
Clinton	22,756	M. W. Bannister.
Council Bluffs	25,231	H. A. Lennox.
Davenport	39,797	H. J. High.
Des Moines	75,626	J. P. Morey.
Dubuque	41,941	Dr. Chas. Palen.
Fort Dodge	14,369	D. C. Benjamin.
Keokuk	14,604	A. A. Bland.
Marshalltown	12,045	Dr. E. M. Singleton.
Muscatine	15,087	Dr. John Fille.
Ottumwa	20,181	E. B. Hill.
Sioux City	40,362	J. E. Huffman.
Waterloo	18,071	Theo. Peck.
	394,737	

The chemist of the food and dairy department has analyzed about four hundred samples of milk and very few prosecutions for the sale of adulterated milk have resulted. There is room for very great improvement in the quality of milk sold in the cities, so far as cleanliness and modern methods of handling are concerned, but the use of added ingredients of any kind is extremely small.

## STATISTICAL TABLES.

A study of the following tables will show a very considerable increase in every item for which figures are given except the amount of milk which is sent to the creameries, which rapidly decreases.

Table of comparisons is given below:

	Creamery Patrons.	Cows.	Hand Separators.	Butter Made.
1905	85,000	600,000	49,130	82,707,588
1906	91,867	650,000	58,950	91,202,354



TABLE No. II.

TABLE SHOWING NUMBER OF POUNDS OF MILK RECEIVED, NUMBER OF POUNDS OF CREAM RECEIVED, POUNDS OF BUTTER MADE AND POUNDS SOLD TO PATRONS IN IOWA SO FAR AS REPORTED BY THE CREAMERIES.

County	Number reporting	Pounds of milk received	Pounds of cream received	Pounds of Butter Made and Market for Same		
				Pounds of butter made	Pounds sold to patrons	Pounds sold in Iowa
Adair	5	3,896,755	2,975,035	1,064,808	24,706	87,424
Adams	3	1,268,917	491,077	217,186	3,484	2,424
Adams	7	5,859,303	1,863,052	18,165	46,555	
Adams	8	18,286,232	2,182,161	1,647,452	87,671	8,533
Benton	3	442,267	2,223,522	226,119	1,750	7,197
Black Hawk	10	40,382,209	1,638,409	2,146,291	177,893	326,677
Boone	2	4,360,000	20,250	188,185	8,775	9,690
Bremer	22	67,300,129	41,000	3,067,487	225,308	54,088
Buchanan	8	29,247,378	1,608,450	1,706,243	118,786	40,266
Buena Vista	1	2,885,499	1,315,460	1,050,962	5,393	1,540
Butler	14	33,329,759	904,875	1,330,683	139,944	69,162
Calhoun	3	1,500,083	3,389,801	1,218,194	3,486	3,819
Carroll	6	2,406,242	6,513,919	1,829,235	15,343	20,055
Cass	2	107,577	552,951	185,336	429	485
Cedar	4	1,415,980	643,252	245,709	6,167	44,316
Cerro Gordo	6	365,000	4,112,691	1,363,171	11,322	50,387
Cherokee	4	218,361	1,444,561	612,819	1,564	1,920
Chickasaw	15	34,564,544	4,722,657	2,841,369	189,673	59,883
Clay	6	5,186,062	1,368,706	856,629	46,579	10,115
Clayton	15	36,164,470	5,848,875	3,260,568	90,691	38,200
Clinton	7	5,239,347	977,726	474,151	14,500	2,309
Crawford	1		5,000,000	1,261,119		10,000
Dallas	3	1,832,140	1,259,180	327,821	21,583	38,764
Davis						
Decatur	3	69,250				
Delaware	20	51,708,305	3,154,591	2,974,239	221,543	105,722
Des Moines						
Dickinson	16	18,279,207	1,097,945	1,781,821	89,812	39,186
Dubuque						
Emmet	8	12,671,221	1,463,197	595,623	42,972	839
Fayette	21	62,668,360	2,764,417	3,445,213	218,076	257,738
Floyd	5	2,402,443	654,172	1,094,154	49,357	16,481
Franklin	5	7,617,419	3,900,198	1,331,568	28,838	6,641
Fremont						
Greene	1		140,000	35,000		
Grundy	5	20,751,773	1,889,535	1,808,123	150,824	10,321
Guthrie	10	9,873,528	4,379,570	1,325,863	35,750	21,420
Hamilton	2	4,333,650	317,000	272,404	10,633	1,634
Hancock	5	2,673,563	3,343,853	1,087,651	27,480	3,760
Hardin	11	17,275,873	2,339,801	1,339,567	93,071	24,088
Harrison	1	641,790	42,530	35,000	1,713	
Henry	7	8,235,073	1,886,529	904,756	36,804	8,987
Howard	10	5,549,059	1,308,289	717,910	49,797	73,472
Humboldt						
Ia	1		1,615,737	321,680	3,670	
Iowa	7	11,058,863	908,422	702,056	62,825	159,924
Jackson	13	10,813,556	3,643,551	1,600,912	36,908	33,961
Jasper	3	210,218	182,484	182,484	19,361	40,375
Jefferson	3	1,460,880	1,064,899	432,344	7,134	125,880
Johnson						
Jones	12	31,600,119	3,320,317	2,333,021	104,114	93,379

TABLE No. II—CONTINUED.

County	Number reporting	Pounds of milk received	Pounds of cream received	Pounds of Butter Made and Market for Same		
				Pounds of butter made	Pounds sold to patrons	Pounds sold in Iowa
Keokuk						
Kossuth	20	26,522,070	3,139,129	2,131,916	159,588	46,889
Lee	1		1,500,000	500,800		50,000
Linn	19	18,889,702	3,659,763	1,657,996	59,879	398,363
Louis						
Lucas						
Lyon	3	578,278	1,209,067	485,491	10,719	
Madison						
Mahaska	2		532,479	216,161	66,308	
Marion	1		619,925	193,649	19,704	11,463
Marshall	5	1,844,800	1,198,817	606,974	11,948	144,517
Mills						
Mitchell	8	494,708	5,218,648	1,521,661	62,760	876,874
Monona	1		197,451	65,504	160	324
Monroe	1	1,025,468	130,413	76,301	2,580	11,305
Montgomery						
Muscatine	2	3,860,604	320,220	233,184	240	86,200
O'Brien	4	3,004,578	1,490,473	623,113	15,382	42,811
Osceola	2	492,376	895,234	262,523	5,615	4,123
Page	1		6,500,000	1,169,683		78,000
Palo Alto	12	30,039,700	810,028	2,056,496	169,364	207,168
Plymouth	3	941,153	1,384,561	514,533	12,201	455
Pocahontas	3	166,816	828,891	294,628	3,650	272
Polk	5	2,121,632	15,487,377	4,033,378	2,745	874,447
Pottawattamie	1	1,000,000		225,000		
Poweshiek	3	1,067,460	456,577	152,185	3,300	
Ringgold						
Sac						
Scott	9	1,709,317	2,516,232	710,395	21,633	800
Shelby	6	2,116,069	2,327,312	521,832	290	153,353
Sioux	6		2,408,773	690,773	16,288	3,860
Story	9	11,875,381	4,026,405	1,610,903	17,907	14,555
Tama	3	1,139,471	494,128	190,630	1,500	5,048
Taylor	3		6,000,000	1,559,131	2,775	12,605
Union	1		3,500,000	1,000,000		
Van Buren						
Wapello	2	792,791	911,996	321,413	1,900	37,612
Warren	1	155,480	31,021	1,788	5,000	
Washington						
Wayne	1		2,692,358	742,945	15,000	5,000
Webster						
Winnebago	8	18,691,374	2,003,677	1,465,546	106,623	18,115
Winnesiek	13		2,262,384	2,437,743	21,820	65,614
Woodbury	1	6,000,000	21,155,679	7,061,893		
Worth	8	11,524,485	1,267,068	876,929	54,600	4,609
Wright	6	722,920	5,009,082	722,559	25,797	14,652
Total	509	724,878,034	210,150,684	91,202,354	3,689,907	4,329,896

TABLE No. III.

TABLE SHOWING NUMBER OF HAND SEPARATORS, NUMBER OF PATRONS  
AND NUMBER OF COWS.

County	No. of cream- ery hand separators	Hand separators reported	No. of cream- eries reporting	No. of patrons reported	No. of cream- ery's reporting num- ber of cows	No. of cows re- ported
Adair	5	1,014	5	1,141	3	4,100
Adams	2	128	2	211		
Alamogordo	1	1,414	1	1,741		11,206
Appanoose						
Audubon	6	870	8	1,345	8	13,025
Benton	2	340	3	691	16	10,020
Black Hawk	10	405	16	1,092	2	1,400
Boone	1	15	2	150	2	1,400
Bremar	2	96	21	1,694	18	15,491
Buchanan	2	292	8	1,252	7	10,373
Buena Vista	4	702	4	753	3	4,715
Butler	10	157	14	1,638	11	10,628
Calhoun	4	415	4	532	2	3,450
Carroll	5	1,402	6	1,456	3	2,000
Cass	5	185	3	240		1,530
Cedar	4	124	4	273	4	2,088
Cerro Gordo	6	1,110	6	1,276	4	5,064
Cherokee	3	723	4	919	3	2,680
Chickasaw	12	1,090	15	2,541	10	13,429
Clarke	5	451	6	549	3	3,930
Clay	13	2,236	15	3,896	10	21,226
Clayton	7	301	7	480	6	2,305
Clinton	1	1,063	1	1,063		
Crawford						
Dallas	3	430	4	759	1	1,300
Davis	1			100		350
Decatur	15	674	21	2,008	16	13,635
Delaware	5	477	5	571	4	3,370
Des Moines	11	489	17	1,119	11	5,330
Dickinson						
Dubuque	8	303	8	511	5	3,783
Emmet	7	677	20	2,755	16	20,706
Fayette	5	582	5	1,070	4	2,480
Floyd	5	646	5	1,019	4	7,070
Franklin						
Fremont						
Greene	1	6				
Grundy	8	353	8	872	7	9,480
Guthrie	9	815	9	1,510	5	4,949
Hamilton	2	205	3	310	2	2,760
Hancock	6	638	7	969	7	8,326
Hardin	10	997	9	1,495	7	1,788
Harrison	1	30	1	36	1	450
Henry						
Howard	6	332	7	913	6	7,065
Humboldt	9	459	9	770	8	7,191
Ia						
Iowa	1	310	1	370		
	7	317	6	682	6	2,975
Jackson	12	1,170	12	1,538	10	6,231
Jasper	2	49	2	190		671
Jefferson	3	296	3	395	2	1,942
Johnson						
Jones	12	1,280	11	1,908	9	23,577
Keokuk						
Kossuth	18	982	20	1,781	13	10,816

TABLE No. III—CONTINUED.

County	No. of cream- ery's reporting hand separators	Hand separators reported	No. of cream- eries reporting	No. of patrons reported	No. of cream- ery's reporting num- ber of cows	No. of cows re- ported
Lee		1,700	1	2,000	1	16,000
Linn	12	1,233	13	2,310	10	6,701
Louisa						
Lucas						
Lyon	3	540	3	630	2	1,000
Madison						
Mahaska	2	440	2	615	1	1,000
Marion	3	200	1	400		
Marshall	4	365	5	835	3	4,010
Mills	8	506	8	1,551	7	10,196
Monona	1	497	1	127	1	816
Monroe	1	108	1	162	1	816
Montgomery						
Muscataine	1	40	2	292	2	1,700
O'Brien	4	831	4	924	2	3,900
Osceola	2	210	2	252	1	1,200
Page	1	2,000				
Palo Alto	11	304	12	1,222	9	9,205
Plymouth	2	453	3	535	2	2,850
Pocahontas	2	315	3	329	1	700
Polk	3	5,000	3	6,500	1	500
Pottawattamie	1	360	1	500		
Poweshiek	3	190	3	259	3	1,275
Ringgold						
Sac	8	898	8	985	5	4,090
Scott	4	284	4	488		
Shelby	7	714	7	865	1	3,615
Sioux	6	1,506	6	1,626	6	11,695
Story	7	439	8	1,113	7	5,876
Tama	3	318	3	401	2	900
Taylor	1	1,014	2	1,604		
Union						
Van Buren						
Wapello	2	1,271	2	1,325	1	400
Warren						
Washington						
Wayne	1	1,700	1	1,700		
Webster						
Winnebago	6	666	8	1,258	8	13,323
Winnebush	13	1,438	13	2,821	7	11,896
Woodbury	1	6,500	1	7,000		
Worth	7	428	7	691	7	5,500
Wright	5	575	5	672	4	4,843
Total	418	58,050	498	91,867	366	423,539



## CREAMERY LIST

\* Indicates that it is a skim station. c-Co-operative. s-Stock. i-Individual.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
<b>ADAIR COUNTY—</b>				
1	Adair Co-op. Cry. Co.	M. L. McManus	Adair	C. E. McIntire
2	Arbor Hill Co-operative Cry. Co. (Arbor Hill)	C. C. Pease	Stuart	E. C. Lamoree
3	Blue Grass Cry.	A. L. Stewart & Co.	Fontanelle	M. N. Bates
4	Greenfield Cry. Co.	Jas. F. Laude	Greenfield	J. D. Main
5	Blue Grass Cry. (Bridgewater)	A. L. Stewart & Co.	Fontanelle	R. R. Brown
<b>ADAMS COUNTY—</b>				
6	Farmers' Mut. Co-op. Cry. Assn.	F. A. Outhier	Prescott	Chas. E. Chawgo
7	Mt. Etna Farmers' Mut. Cry. Co.	C. A. Peterson	Mount Etna	P. O. Abbott
8	Fars. Mut. Co-op. Cry. Assn.	Grant Carson	Nevinville	C. Sorenson
<b>ALLAMAKEE COUNTY—</b>				
9	Farmers' Mut. Co-Co. Cry. Co.	Ben Schwarzhoff	Dorchester	E. F. Monke
10	Calhoun Cry. Co. (Lansing)	P. E. O'Donnell	Church	K. V. Ferris
11	Postville Fars. Co-op. Cry. Co.	F. H. Weizel	Postville	Jas. A. Gordon
12	Fars. Co-op. Cry. & Comcl. Co.	T. S. Barringrud	Waterville	F. W. Hessel
13	Ludlow Co-op. Cry. Co.	F. A. Sanderman	Waukon	W. P. Muth
14	Arctic Springs Cry. Association (Quandah)	O. C. Flatberg	Spring Grove	Minn
15	Fars. Waukon Co-op. Cry. Co.	J. L. White	Waukon	M. E. Bakken
16	New Albin Co-op. Cry. Co.	R. G. May	New Albin	Jackson Smith
<b>AUDUBON COUNTY—</b>				
17	Sharon Sep. Cry. Co.	C. C. Moller	Audubon	M. Anderson
18	Oakfield Twp. Sep. Cry. Co.	Hans Nymand	Brayton	J. P. Nielson
19	Audubon Twp. Sep. Cry. Co.	P. Jensen	Exira	P. Jensen
20	West Hamlet Co-op. Cry. Co.	F. J. Jansson	Exira	Fred Glenoff
21	Exira Cry. Co.	Chris C. Nelson	Exira	Chris C. Nelson
22	Blue Grass Sep. Cry. Co.	C. V. Christensen	Hamlin	Fred Helleman
23	Danish Sep. Creamery (Kimballton)	Peter Lykke	Audubon	Peter Thuesen
24	Liberty Cry. Co. (Manning)	George Nelson	Irwin	Oscar Jensen
<b>BENTON COUNTY—</b>				
25	Blairstown Cry.	Chas. Hanbold	Blairstown	Chas. Hanbold
26	Norway Cry.	M. B. Hershey	Norway	M. B. Hershey
27	Urbana Cry. Co.	Jas. Romine	Urbana	Jas. Romine
<b>BLACK HAWK COUNTY—</b>				
28	La Porte Co-op. Cry. Co.	C. B. Gingrich	La Porte City	Oscar Harvey
29	Benson Dairy Co. (Benson)	W. Bozarth	Cedar Falls	Geo. W. Wardel
30	Crain Creek Cry.	Wm. Melzer	Denver	Wm. Melzer
31	Great Western Cry. Co.	Wm. Widdel	Dewar	A. J. Widdel
32	Farmers' Cry. Assn.	G. S. Kleckner	Dunkerton	O. G. Alexander
33	Eagle Center Dairy Association (Eagle Center)	D. G. Lichty	Waterloo	J. G. Nicholes
34	East Lester Cry.	Ira Finch	Fairbank	C. E. Brant
35	Union Cry. Co. (Hatchford)	C. A. George	Winslow	I. R. Moon
36	Farmers' Co-op. Dairy Assn.	C. H. Brandthorpe	Hudson	H. C. Konecke
37	Mount Vernon Cry.	J. E. Rundles	Janeville	R. D. Lammer
38	Jubilee Co-op. Cry. (Jubilee)	F. J. Orth	Jesup	Byron Lenius
39	Red Bird Cry. (Voorhees)	C. E. Stevens	Trues	Vm. Hammel
40	Gilbertville Dairy Assn.	G. B. Kascht	Gilbertville	John Ambrosy
41	Edwards' Cry. (Edwards)	H. O. Moxford	Waterloo	H. O. Moxford
42	Farmers' Dairy Assn.	C. S. Elough	Waterloo	R. W. Chadwick
43	Black Hawk Cry. Co.	R. F. Porter	Cedar Falls	A. K. Smith
44	Farrington Cry. Co.	E. Garton	Cedar Falls	L. D. Woodworth
45	Cedar Falls Cry. Co.	E. Freeze	Cedar Falls	E. Freeze

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
<b>BOONE COUNTY—</b>				
46	Farmers' Co-op. Cry. Company (Rosendale)	M. P. Peterson	Story City	L. C. Peterson
47	Dodge Farmers' Mut. Cry. Co. (Boone)	J. F. Lacey	Stanhope	August Dreucker
<b>BREMER COUNTY—</b>				
48	Bremer Cry. Co. (Bremer)	H. L. Kelley	Waverly	Wm. Kallenbach
49	Western Douglas Cry. Co.	L. E. Rodemeyer	Waverly	C. H. Wedemeier
50	Little Valley Cry.	Chas. Krueger	Sumner	F. Wills
51	Farrington Cry. (Denver)	P. Garton	Cedar Falls	C. Woodworth
52	First Maxfield Cry. Co.	Wm. Millus	Denver	John Wedemeyer
53	Frederika Cry. Assn.	H. H. McDonald	Frederika	Cecil E. Carr
54	Klinger Cry. (Readyln)	C. H. Rohrsen	Dunkerton	C. H. Rohrsen
55	Maxfield Cry.	J. Strottmann	Readyln	F. H. Wheling
56	Climax Cry. Co.	H. H. Specht	Sumner	Henry Behrens
57	Excelsior Cry. Co.	H. E. Wuttke	Sumner	C. L. Mills
58	Sumner Co-op. Cry. Co.	T. J. Hatchford	Sumner	F. M. Zell
59	Fremont Cry. Co.	H. F. Braud	Tripp	Henry Hankner
60	Potters' Sliding Cry. Co.	H. Wildbrandt	Tripp	Wm. Ambros
61	Tripp Cry. Co.	Chas. Jahneke	Tripp	F. C. Oltrogge
62	Artesian Cry. Co. (Denver)	H. H. Greening	Readyln	F. M. Vargson
63	LaFayette Cry. Co.	Emil Wuttke	Waverly	Henry Piegors
64	Washington Cry.	S. M. Lehman	Waverly	D. A. Bottermann
65	Siegel Cry. Co.	H. J. Joens	Tripp	Wm. Lenius
66	Grove Hill Cry. Co.	J. A. Neil	Fairbank	P. D. Daniels
67	Spring Fountain Cry. Co.	Joe Volker	Sumner	Fred Sommer
68	Beadlyn Cry. Co.	Rudolph Tiedt	Readyln	H. L. Grease
69	Janeville Cry. Assn.	H. W. Stine	Janeville	B. O. Squires
70	Great Northern Cond. Factory	Chas. Shaw	Waverly	John Whaling
71	Dayton Cry. Co.	A. J. Schwake	Sumner	
<b>BUCHANAN COUNTY—</b>				
72	Aurora Cry.	Geo. L. Weeks	Aurora	W. A. Rizer
73	Fairbank Farmers' Cry. Co.	Jesse Lyon	Fairbank	W. Peterson
74	Harleton Farmers' Cry. Co.	W. L. Codner	Harleton	W. H. Allen
75	Jesup Cry. Co.	G. L. Bright	Jesup	E. A. Harvey
76	Lamont Cry.	J. D. Thompson	Lamont	F. W. Stephenson
77	Oterville Cry. Co. (Oterville)	G. M. Vincent	Oterville	W. H. Moller
78	Stanley Cry. (Stanley)	Geo. L. Weeks	Aurora	Arthur Strong
79	Spring Grove Cry.	A. R. Campbell	Independence	J. D. Bantz
80	Spring Grove Cry. (Newtonville)	R. Campbell	Independence	
81	Spring Grove Cry. (Quasqueton)	A. R. Campbell	Independence	
82	Waspie Valley Cry. Co.	I. S. Hutton	Independence	
<b>BUENA VISTA COUNTY—</b>				
83	Fairfield Cry. Co.	O. P. Peterson	Albert City	Emil Krause
84	Coon River Co-op. Cry. Co.	E. P. Kruse	Newell	J. F. Sharp
85	Grant Cry. Co.	Geo. W. Cole	Storm Lake	C. H. Werder
86	Farmers' Co-op. Cry. Co.	C. P. Cornellussen	Alta	W. H. Allen
87	Newell Cry.	G. F. Allard	Newell	G. F. Allard
88	Rembrandt Cry. Co.	O. J. Hegna	Rembrandt	P. O. Lindstrom
89	Linn Grove Cry.	A. M. Frandsen	Linn Grove	A. M. Frandsen
<b>BUTLER COUNTY—</b>				
90	Aplington Co-op. Cry. Co.	E. R. Meyer	Aplington	C. Wiebar
91	White Rose Cry.	S. Sam Patterson	Austinville	Sam Patterson
92	Allison Cry.	W. H. Codner	Allison	W. H. Codner
93	Cold Water Co-op. Dairy Assn.	J. W. Williams	Greene	J. Jacobsen
94	Clarksville Cry. Co.	J. J. Ross	Clarksville	J. J. Ross
95	Monroe Central Cry. Assn.	C. P. Primus	Arlington	Geo. Palmer
96	Kelsey Cry.	J. H. Patterson	Kelsey	H. Patterson
97	Beaver Cry. Co.	Peter Larson	New Hartford	Peter Larson
98	Parkersburg Cry. Co.	R. W. S. Menden	Parkersburg	Geo. E. Jensen
99	Parkersburg Cry. Co. (Sincclair)	A. W. S. Mead	Parkersburg	
100	Shell Rock Cry. Assn.	E. M. J. Johnson	Shell Rock	M. J. Johnson
101	Columbian Cry.	H. Hall & Olson	Shell Rock	A. Olson



## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
<b>BUTLER COUNTY—Continued.</b>				
102	Victory Cry.....	S. B. Whitney.....	Waverly.....	D. E. Sheldon
103	Walkers' Cry.....	A. B. Walker.....	Shell Rock.....	A. B. Walker
104	Northern West Point Cry. Co.....	Herman Debnar.....	Greene.....	A. F. Schultz
105	Albion Cry. Co.....	O. F. Courbat.....	New Hartford.....	O. F. Courbat
106	Bristow Cry.....	Jas. P. Johnston.....	Bristow.....	Jas. P. Johnston
107	Oakdale Dairy Assn.....	J. W. Plummer.....	Packard.....	C. S. Payne
108	New Hartford Cry.....	L. W. Plummer.....	New Hartford.....	C. S. Payne
<b>CALHOUN COUNTY—</b>				
109	Farmers' Co-op. Cry. Co.....	C. W. Jewell.....	Lake City.....	Carl Lisner
110	Manson Cry.....	G. B. Moon.....	Manson.....	Chas. Moon
111	Pomeroy Cry.....	John Behrend.....	Pomeroy.....	J. E. Lauridsen
112	Andrew Wood Co.....	T. H. Allen.....	Rockwell City.....	L. Larsen
113	*Andrew Wood Co. (Lynton).....	T. H. Allen.....	Rockwell City.....	L. Larsen
114	Somers' Cry.....	Lewis Richards.....	Somers.....	Lewis Richards
<b>CARROLL COUNTY—</b>				
115	Golden Star Cry. Co.....	C. Wiebers.....	Arcadia.....	H. Hansen
116	Fest's Cry.....	H. L. Fest.....	Coon Rapids.....	H. L. Fest
117	Mt. Carmel Cry. Co.....	H. Schenkelberg.....	Carroll.....	H. F. Fleaske
118	Rose Valley.....	C. Kohorst.....	Roselle.....	C. Kohorst
119	Templeton Cry. Co.....	Geo. Bieri.....	Templeton.....	E. C. Schuknekt
120	Fairmont Cry. Co. (Manning).....	E. F. Howe.....	Fairmont, Neb.....	O. P. Yant
121	Halbur Cry.....	M. J. Wagner.....	Halbur.....	M. J. Wagner
<b>CASS COUNTY—</b>				
122	Farmers' Mut. Co-op. Cry. Co.....	C. P. Pettinger.....	Cumberland.....	Albert Heyn
123	Dewey Mut. Co-op. Butter Fac. (Dewey).....	Adolph Bernhardt.....	Musena.....	Albers H. Ady
124	Pioneer Cry. Co.....	E. M. Bourne.....	Wiota.....	E. E. Hawthorne
<b>CEDEAR COUNTY—</b>				
125	Golden Star Cry.....	W. H. Kroeger.....	Bennett.....	W. H. Kroeger
126	Union Cry.....	E. Huxoll.....	Lowden.....	E. Huxoll
127	*Union Cry.....	E. Huxoll.....	Lowden.....	E. Huxoll
128	Home Cry.....	F. F. Reinking.....	Lowden.....	Geo. Reinking
129	West Branch Cry.....	Eves & Elliott.....	West Branch.....	Lewis Elliott
<b>CERRO GORDO COUNTY—</b>				
130	J. D. Bickel Produce Co.....	M. V. Bickel.....	Mason City.....	Geo. Heffron
131	Plymouth Cry. Co.....	C. A. Molsberry.....	Plymouth.....	Roy D. Sweet
132	Portland Cry.....	C. E. Sweet.....	Portland.....	C. E. Sweet
133	Sunnyside Cry.....	J. C. Mortensen.....	Thornton.....	Carl Jensen
134	Farmers' Mut. Co-op. Cry. Co.....	Theo. Manz.....	Meservey.....	Fred Facewell
135	E. B. Higley Co.....	C. O. Keefe.....	Mason City.....	C. H. Cleveland
136	Farmers' Mut. Co-op. Cry.....	W. L. Barlow.....	Clear Lake.....	Guy Thomas
<b>CHEROKEE COUNTY—</b>				
137	Aurelia Cry.....	Alex McAdam.....	Aurelia.....	Alex McAdam
138	White Rose Cry.....	Marcus.....	Chicago, Ill., 40.....	E. F. Lowe
139	Cherokee Cry. (Cherokee).....	Jas. P. Younger.....	Dearborn St.....	Walter Freed
140	Washta Cry.....	Jas. Robertson Jr.....	Washta.....	M. J. Goodnow
<b>CHICKASAW COUNTY—</b>				
141	Royd Farmers' Cry. (Royd).....	J. De Bettigmes.....	New Hampton.....	M. J. Donovan
142	Farmers' Cry. Assn.....	Albert Tietjen.....	Alta Vista.....	O. H. Buehrer
143	Farmers' Cry. Assn. (Devon).....	John Larson.....	New Hampton.....	Roger White
144	Deerfield Cry.....	J. W. Kane.....	Alta Vista.....	E. B. Olds
145	Fredericksburg Butter Factory.....	C. L. Whitcomb.....	Fredericksb'rg.....	E. F. Forrester
146	Farmers' Cry. Assn.....	H. B. Young.....	Ionia.....	Jacob Eckstein
147	Jerico Cry. Assn. (Jerico).....	T. W. Munson.....	New Hampton.....	John Finigan
148	Lawler Cry. Assn.....	P. J. Cooney.....	Lawler.....	F. A. Zeigler

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
<b>CHICKASAW COUNTY—Continued.</b>				
149	Little Turkey Cry. (Little Turkey).....	H. R. Carpenter.....	Elkader.....	Henry Mikkelsen
150	New Hampton Cry. (New Hampton).....	J. L. Humphrey Jr.....	New Bedford.....	Geo. C. Kolthoff
151	*New Hampton.....	J. L. Humphrey Jr.....	New Bedford.....	Geo. C. Kolthoff
152	Farmers' Co-op. Cry. Assn.....	S. W. Blinn.....	Nashua, Mass.....	J. W. Cagley
153	Gurley Cry. (Nashua).....	G. H. Gurley.....	Nashua, Mass.....	Chas. Herren
154	North Washington Cry. Co.....	E. N. Gindorff.....	N. Washington.....	Robt. Maille
155	Sauke Co-op. Cry. Assn. (Sauke).....	Wm. Sanderson.....	Lawler.....	G. F. Langquist
156	Williamstown Cry. Assn.....	H. S. Keranen.....	Fredericksb'rg.....	L. L. Flickinger
<b>CLAY COUNTY—</b>				
157	Farmers' Co-op. Cry.....	Wm. McCurdy.....	Dickens.....	A. W. Snyder
158	Fostoria Cry. Co.....	F. Riley.....	Fostoria.....	F. Riley
159	Royal Cry.....	Adol. Christensen.....	Royal.....	A. Christensen
160	Farmers' Co-op. Cry. Co. (Langdon).....	H. R. Beck.....	Spencer.....	Wm. Thayer
161	Spencer Cry.....	J. W. Cory.....	Spencer.....	Frank L. Repka
162	Webb Cry.....	J. A. Reid.....	Webb.....	J. A. Reid
<b>CLAYTON COUNTY—</b>				
163	Elkader Cry.....	H. R. Carpenter.....	Elkader.....	Harvey Clough
164	Fidelity Cry.....	H. F. Beyer.....	Edgewood.....	Ed. Whipple
165	Elkport Cry. (Elkport).....	H. F. Beyer.....	Edgewood.....	J. S. Watson
166	Farmers' Co-op. Cry. Co.....	A. A. Kishman.....	Farmersburg.....	I. D. Hendershott
167	Farmers' Cry. Co.....	C. H. H. Kuhlman.....	Garnaville.....	O. H. Schumacher
168	Farmers' Co-op. Cry. Co.....	James Humphrey.....	Luana.....	J. A. Barker
169	Littleport Cry. (Littleport).....	J. W. Meyer.....	Edgewood.....	F. Sherman
170	Communika Cry. Co. (Communika).....	J. W. Meyer.....	Elkport.....	Peter Klunk
171	Monona Cry. (Monona).....	H. R. Carpenter.....	Elkader.....	John Foss
172	Osterdock Cry. (Osterdock).....	H. R. Carpenter.....	Elkader.....	A. H. Peacock
173	J. D. Bickel Produce Co.....	M. V. Bickel.....	McGregor.....	R. M. Pressley
174	St. Olaf Co-op. Cry. Co.....	G. R. Engelhardt.....	St. Olaf.....	J. Frisby
175	Farmers' Cry. Assn.....	C. G. Gladwin.....	Strawberry Pt.....	H. J. Evans
176	Farmers' Cry. Assn.....	E. E. Olinger.....	Volga City.....	Watson Shaek
177	Blue Grass Cry. (Watson).....	John Geraghty.....	McGregor.....	F. A. Fiet
<b>CLINTON COUNTY—</b>				
178	Springbrook Cry. (Delmar).....	John Newman Co.....	Elgin, Ill.....	Wm. Gossman
179	Springbrook Cry. (Elwood).....	John Newman Co.....	Elgin, Ill.....	F. W. Leinbaugh
180	Springbrook Cry. (Petersville).....	John Newman Co.....	Elgin, Ill.....	C. Eurenus
181	Springbrook Cry. (Teed's Grove).....	John Newman Co.....	Elgin, Ill.....	A. Anrep
182	Springbrook Cry. (Wilton).....	John Newman Co.....	Elgin, Ill.....	C. B. Best
183	Farmers' Co-op. Cry.....	E. F. Lohmann.....	Wheatland.....	A. E. Banta
184	Farmers' Co-op. Cry.....	Hart Jr.....	Toronto.....	W. L. Sloan
185	*Diamond Cry. (Lost Nation).....	C. W. Simpson.....	Monticello.....	W. L. Sloan
186	*Diamond Cry. (South Grove).....	C. W. Simpson.....	Monticello.....	W. L. Sloan
187	Springbrook Cry. (Browns).....	John Newman Co.....	Elgin, Ill.....	W. L. Sloan
<b>CRAWFORD COUNTY—</b>				
188	Fairmont Cry. Co. (Denison).....	E. F. Howe.....	Fairmont, Neb.....	A. F. Durkee
<b>DALLAS COUNTY—</b>				
189	Farmers' Co-op. Cry. Co.....	Jas. L. Keachle.....	Dexter.....	Jas. L. Keachle
190	Perry Cry.....	Moody & Son.....	Perry.....	Owen Fox.....
191	Woodward Cry.....	Caloney & Son.....	Woodward.....	A. B. Caloney
192	Smith Produce Co.....	A. E. Smith.....	Redfield.....	G. A. McGriff
<b>DECATUR COUNTY—</b>				
193	Decatur Co. Co-op. Cry. Co.....	E. E. Dorn.....	Leon.....	J. M. Zubrod



## CREAMERY LIST—Continued

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
DELAWARE COUNTY—				
194	Farmers' Co-op. Cry. Co.	J. C. Matthews	Greeley	W. R. Crabb
195	Colesburg Cry. Co.	Robt. A. Gull	Colesburg	A. L. Landis
196	Barryville Co-operative Cry. Co.	John Duggan	Ryan	Earl E. Mittlestadt
197	Hopkinton Co-op. Cry. Co.	Thomas Wilson	Hopkinton	John Stevenson
198	Bear Grove Cry. Co.	Jno. T. Goedken	Dyersville	J. B. Domayer
199	Delaware Co-op. Cry. Co.	J. Yelden	Delaware	G. O. Miller
200	Earlville Cry. Co.	J. M. Dunn	Earlville	G. R. Dunn
201	Gilt Edge Cry. Co.	J. E. McCaffrey	Earlville	J. E. McCaffrey
202	Manchester Co-op. Cry. Co.	A. A. Morse	Manchester	R. L. Griffith
203	Dairy City Cry. Co.	A. J. Andrews & Co.	Manchester	A. A. Palmer
204	"Dairy City Cry. Co."	A. J. Andrews & Co.	Manchester	
205	Masonville Co-op. Cry. Co.	F. S. Harris	Masonville	R. J. Erb
206	Silver Spring Cry. Co.	E. B. Potter	Delhi	A. H. Bentz
207	Petersburg Cry. Co. (Petersburg)	F. H. Rolles Jr.	Earlville	Nick Budden
208	Spring Branch Co-op. Cry. Co. (Manchester)	W. J. Davis	Delaware	H. Everts
209	Farmers' Co-operative Cry. Co. (Thorpe)	M. E. Blair	Manchester	G. Stuessi
210	Sand Spring Co-op. Cry. Co.	F. S. Bowen	Sand Spring	L. A. Pollard
211	Ryan Cry. Co.	Geo. A. Emry	Ryan	Geo. A. Emry
212	Hazel Cry. Co. (Ryan)	F. J. McBride	Hopkinton	Geo. Williams
213	Silver Creek Cry. Co.	Geo. E. Packer	Ryan	Geo. E. Packer
214	Onelda Cry. Co.	F. M. Burbridge	Onelda	Thos. Dickson
215	Ehler Cry. Co.	Nathan Patton	Ehler	Lester Pierce
DICKINSON COUNTY—				
216	Farmers' Co-op. Cry. Co.	J. G. Chrysler	Lake Park	E. E. Starr
217	Farmers' Butter & Cheese Assn.	H. H. Shipman	Milford	J. O. Miller
218	Farmers' Co-op. Cry. Assn.	F. Bergman	Milford	Edith Creek
219	Terrill Co-op. Cry. Assn.	T. H. Tvedten	Terrill	F. J. Mable
220	Superior Co-op. Cry. Co.	J. M. Plummer	Superior	Phillip Wolf
DUREAU COUNTY—				
221	Baltown Co-op. Cry. Co. (Baltown)	C. D. Harrington	Specht's Ferry	H. Koehler
222	Spring Valley Co-op. Cry. Co.	J. N. Kremer	Cascade	Wm. Thompson
223	Cascade Co-op. Cry. Co.	C. G. Conlin	Cascade	R. W. Wise
224	Hickory Valley Cry. Co.	John Ramm	Farley	Peter Schmitt
225	Farmers' Golden Star Cry. Co.	J. H. Priers	Dyersville	J. B. Feldman
226	Fillmore Co-op. Cry. Co. (Fillmore)	Wm. Craft	Cascade	F. V. Souder
227	Johns Creek Cry. Co.	A. K. Heald & Sons	Farley	John Hogan
228	Farley Cry. Co.	G. W. Cropp	Farley	T. Lands
229	Oak Grove Cry. Co.	H. S. Sylvester	Waupeton	H. S. Sylvester
230	Globe Cry. (Luxemburg)	Joe Friedman	N. Buena Vista	Anton Smith
231	New Vienna Co-op. Cry. Co.	Henry Fangmann	New Vienna	J. Stillmunks
232	Farmers' Cry. Co.	J. W. Farnl	Durango	J. W. Farnl
233	Riverside Cry. Co.	Mat Neises	Sherrill	Nic Semmert
234	Sherrill Cry. Co.	J. C. Boylan	Sherrill	Specht's Perry
235	Worthington Cry. Co.	C. Baehler	Worthington	C. Baehler
236	Ladd Cry. Co.	F. G. Ladd	Zwinglie	F. G. Ladd
237	Holy Cross Cry. Co.	F. E. Crispen	Buena Vista	J. P. Crispen
238	Elia Bluffs Cry. Co.	S. P. Wadley & Son	Dubaque	A. O. Walker
239	Columbian Cry. Co.	Geo. J. Werner	Dubaque	Geo. J. Werner
240	Dubaque Butter Co.	J. C. Hahn	Dubaque	John Loetscher
241	Loetscher Cry. (Rickardsville)	John Loetscher	Waupeton	John Loetscher
242	Hernard Cry. Co.	Hayes & Cross	Bernard	M. R. Cross
243	Iowa Dairy Co.	A. M. Conzett	Dubaque	A. O. Walker
EMMET COUNTY—				
244	Farmers' Co-op. Cry. Co.	Peter H. Burt	Armstrong	Roy A. Burt
245	Estherville Cry. Co.	J. A. Cronholm	Estherville	H. W. Sidles
246	Farmers' Cry. Co.	P. A. Gaarde	Halfa	R. Wiese
247	Huntington Cry. Co.	D. Reimer	Huntington	Geo. Graham
248	Farmers' Cry. Co. (Hoprig)	John C. Bosold	Graettinger	Julius Jensen
249	Denmark Co-op. Cry. Co.	C. H. J. Fink	Ringsted	Peter Knudsen

## CREAMERY LIST—Continued

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
EMMET COUNTY—Continued.				
250	Forsythe Cry. (Ringsted)	e H. A. Gaarde	Armstrong	Ed. Kressin
251	Wallingford Cry. Co.	e O. O. Anderson	Wallingford	J. C. Jensen
FAYETTE COUNTY—				
252	Brush Creek Farmers' Cry. Co.	e Guy L. Rawson	Arlington	L. S. Edwards
253	Clermont Valley Cry. Co.	e F. J. Ferguson	Clermont	A. Erickson
254	Elgin Farmers Dairy Co.	e M. Luchinger	Elgin	Ed Hanson
255	Fayette Cry. Assn.	e Peter E. Jubb	Fayette	Wm. Dubbs
256	Hawkeye Cry. Co. (Hawkeye)	e J. O. Adams	West Union	Chris Ruesler
257	Harlan Cry. Co.	e J. Lewis	Maynard	C. B. Bracey
258	Oran Cry. Co. (Oran)	e F. T. Shelton	Fairbank	Chas. Marks
259	Oelwein Farmers Cry. Co.	e H. R. Ross	Oelwein	C. M. Ross
260	Jefferson Cry. (Oelwein)	e H. H. Meyer	Maynard	A. B. Ford
261	Randall Cry. Co.	e J. E. Holmes	Randall	Robt. Wagner
262	Center Valley Cry. Co.	e A. E. Fridley	Sumner	Wm. Wenhe
263	Farmers Co-op. Cry. Co.	e John J. Minn	St. Lucas	R. H. Kuennen
264	Westgate Co-op. Cry. Co.	e F. S. Coleman	Westgate	C. H. Capper
265	Riverside Cry. Co.	e F. J. Schroeder	Wadena	F. J. Schroeder
266	West Union Cry. Co.	e N. H. Nelson	Sharon	Chas. Horton
267	Waucoma Farmers Cry. Co.	e Elmer Farr	Waucoma	P. J. Kolbet
268	Farmers' Mohndt Co-op. Cry. Co.	e F. A. Sherman	Stanley	Frank Strong
269	Alpha Farmers Cry. Co.	e T. Gager	Albia	C. N. Beach
270	Richfield Cry. Co. (Sumner)	e H. C. Schroeder	Hawkeye	C. A. Day
271	Maple Grove Cry. Co. (Oelwein)	e T. E. Sadler	Hazleton	T. E. Sadler
FLOYD COUNTY—				
272	Powersville Cry. (Powersville)	e G. H. Gurler	DeKalb, Ill.	W. H. Miller
273	Rockford Co-op. Dairy Assn.	e F. P. Briggs	Rockford	J. C. Farnham
274	Flood Creek Cry. Co.	e M. A. Hirsch	Charles City	H. J. Singer
275	Niles Cry. Co.	e J. J. Brunner	Charles City	Charles City
276	Charles City Cry. Co.	e J. J. Brunner	Charles City	Frank Brunner
277	Charles City Cry. Co.	e Emil Weiss	Charles City	Emil Weiss
278	Purity Cry. Co.	e Fred Jones	Charles City	Fred Jones
FRANKLIN COUNTY—				
279	Hamilton Co-op. Cry. Co. (Coulter)	Geo. Dohrmann	Hampton	L. C. Langesen
280	Farmers Co-op. Cry. Co.	e A. J. Johnson	Dow	Frank Larson
281	Hampton Cry. (Hampton)	e G. H. Gurler	DeKalb, Ill.	Wm. H. Lane
282	Grand Center Cry. Co.	e J. J. Hensing	Iowa Falls	Wm. Mittlestadt
283	Lathimer Co-op. Cry. Co.	e J. W. Meyer	Lathimer	Pred Farwell
284	Kdna Cry. Co.	e Martin & Johnson	Ackley	C. Strausberg
GREENE COUNTY—				
285	Grand Junction Co-op. Cry. Co.	e D. Maloney	Grand Junction	W. Eaton
GRUNDY COUNTY—				
286	Buck Grove Cry. Co.	e O. Niehus	Aplington	J. G. Ellinger
287	German Twp. Cry. Co.	e F. J. Martin	Ackley	Henry Schuttler
288	Dike Co-op. Cry. Co.	e C. W. Roadman	Dike	J. F. Chapman
289	Fredsville Co-op. Cry. (Fredsville)	e Hans Lausen	Cedar Falls	A. E. Kingberg
290	Beaver Center Cry. Co.	e A. A. Meyer	Stout	T. E. Dilger
291	Reinbeck Cry. Co.	e W. J. Miller	Reinbeck	T. Case
292	Pern Cry. Co.	e W. H. Henning	Parkersburg	H. T. Collett
293	Cleves Cry. (Cleves)	e F. J. Martin	Ackley	J. F. Schulz
GUTHRIE COUNTY—				
294	Bayard Co-op. Cry. Co.	e E. S. Branson	Bayard	L. R. Winn
295	Casey Cry. Co.	e H. E. Smith	Casey	H. H. Matvers
296	Guthrie Center Co-op. Cry. Co.	e J. A. McLaughlin	Guthrie Center	J. M. Traft
297	Gladion Cry. Co.	e W. J. Miller	Gladion	J. T. Girard
298	Menlo Cry. Co. (Menlo)	e A. C. Curtis	Stuart	H. H. Harcourt
299	Panora Cry. Co.	e F. F. Wilcox	Panora	J. C. Hayes
300	Stuart Co-op. Cry. Co.	e C. M. Caday	Stuart	A. Cochrane



## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
GUTHRIE COUNTY—Continued.				
301	Iowa Dairy Co.	W. H. Hall	Yale	D. C. Barthlow
302	Dale Co-op. Mut. Cry. Co. (Dale)	S. C. Hummer	Redfield	Frank Howard
303	North Branch Co-op. Cry. Co.	S. O. Jorgensen	North Branch	S. O. Jorgensen
HAMILTON COUNTY—				
304	Ellsworth Co-op. Cry. Assn.	S. Stenberg	Ellsworth	I. W. Mohler
305	*Ellsworth Co-op. (Williams)	S. Stenberg	Ellsworth	
306	*Ellsworth Co-op. (Radcliffe)	S. Stenberg	Ellsworth	
307	Jewell Cry. Co.	Chris Morck	Jewell	Chris Morck
308	*Jewell Cry. Co. (Jewell)	Chris Morck	Jewell	
309	Randall Farmers' Cry. Co.	O. T. Henryson	Randall	M. G. Olson
HAWKCOCK COUNTY—				
310	Britt Co-op. Cry. Co.	C. L. Larson	Britt	H. L. McNary
311	Crystal Cry. Co.	C. Martin Larson	Crystal Lake	L. A. Nelson
312	Goodell Cry. Co.	O. E. Wasenberg	Goodell	Knute Hauge
313	Garner Cry. Co.	H. C. Schultz	Garner	H. C. Schultz
314	Concord Cry. Co.	C. J. Klesel	Garner	C. R. Conway
315	Farmer's Co-op. Cry. Co.	F. L. Bush	Kanawha	B. O. Brownlee
316	Woden Cry. Co.	L. C. Peterson	Woden	L. C. Peterson
HARDIN COUNTY—				
317	Alden Co-op. Cry. Co.	T. E. Huston	Alden	N. H. Trimble
318	Buckeye Co-op. Cry. Co.	E. A. Carriel	Buckeye	G. H. Whitney
319	Ackley Cry. Co.	F. J. Martin	Ackley	Charles Strausberg
320	Eldora Cry. Co.	J. Jensen & Hadley	Eldora	R. R. Hadley
321	Spring Branch Cry. Co.	E. D. Dunn	Eldora	L. Bremson
322	Hubbard Cry. Co.	Ernest Hiler	Hubbard	Ernest Hiler
323	Iowa Falls Cry. Co.	G. L. Whitney	Iowa Falls	J. R. Jones
324	New Providence Cry. Co.	W. T. Kersey	New Providence	J. W. Mohler
325	Concord-Scott Co-op. Cry. Co.	C. S. Thompson	Garden City	J. F. Burrets
326	*Concord-Scott Co-op. Cry. Co. (Radcliffe)	C. S. Thompson	Garden City	
327	*Concord-Scott Co-op. Cry. Co. (Garden City)	C. S. Thompson	Garden City	
328	Steamboat Rock Cry. Co.	F. L. Willis	Steamboat Rk.	M. J. Mansager
HOWARD COUNTY—				
329	Cresco Cry. Co.	C. W. Pierce	Cresco	C. W. Pierce
330	Farmer's Co-op. Cry. Assn.	L. A. Eggerichs	Chester	E. A. Hoopman
331	Elma Co-op. Cry. Co.	J. P. Whelan	Elma	J. P. Whelan
332	Maple Leaf Cry. Co.	C. D. Lade	Maple Leaf	A. J. Harneth
333	Louder Cry. Co.	B. H. Arness	Elma	B. H. Arness
334	Protivin Cry. Assn.	C. J. A. Dostal	Protivin	J. A. Dostal
335	Saratoga Co-op. Cry. Assn.	Alfred Miles	Saratoga	Henry Foss
HUMBOLDT COUNTY—				
336	Arnold Cry. Co.	F. M. Straight	Arnold	F. M. Straight
337	Bradgate Co-op. Cry. Assn.	E. J. L. Van Horn	Bradgate	F. D. Shifflet
338	Bode Cry. Assn.	John Pederson	Bode	A. H. Granseth
339	Owl Lake Cry. Co.	C. M. Clausen	Goldfield	L. M. Tysver
340	Farmer's Co-op. Cry. Co.	A. N. Clancy	Hardy	Lee Robinson
341	Humboldt Cry. Co.	G. L. Cruikshank	Humboldt	L. D. Hill
342	Wacousta Cry. Assn.	John Mertz	Otosen	Mike Hauer
343	Rutland Cry. Assn.	C. U. G. Bennett	Rutland	Joe Bogh
344	Clover Cry. Co.	Lewis Olson	Thor	P. F. Knutson
IDA COUNTY—				
345	Holstein Cry. (Holstein)	A. W. Hubbard	Hinckley, Ill.	W. O. Bradley
IOWA COUNTY—				
346	Shimer Cry. Co.	S. H. Stanerson	Conroy	W. H. Woodcock
347	Genoa Bluffs Cry. Co.	M. W. Kelting	Williamsburg	G. F. Byrne

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
IOWA COUNTY—Continued.				
348	Ladora Cry. Co.	L. W. Wilson	Ladora	John Baitinger
349	Farmer's Mut. Cry. Assn.	Dennis Sullivan	Marengo	Dan O'Neil
350	Victor Co-op. Cry. Co.	H. Whitworth	Victor	G. W. Baitinger
351	Troy Cry. Co.	Geo. C. House	Williamsburg	E. E. Montgomery
352	*Troy Cry. Co.	Geo. C. House	Williamsburg	
353	York Cry. Co. (Williamsburg)	H. W. Huedepohl	South Amana	G. E. Steinke
JACKSON COUNTY—				
354	Fulton Co-op. Cry. Co.	John Heide	Fulton	John Heide
355	Monmouth Cry. (Monmouth)	J. P. Younger	Chicago, Ill.	C. E. Mills
356	Farmer's Union Co-op. Cry. Co.	E. W. Miller	Maquoketa	G. W. Hatch
357	Springbrook Cry. (Miles)	John Newman Co.	Elgin, Ill.	A. J. Spohn
358	Other Creek Cry. Co.	F. G. Ladd	Zwingie	J. T. Mogie
359	Preston Cry. Assn.	Samuel McNeil	Preston	John S. Smith
360	*Preston Cry. Assn. (Preston)	Samuel McNeil	Preston	
361	Springbrook Cry. (Preston)	John Newman Co.	Elgin, Ill.	A. J. Negus
362	*Springbrook Cry. (Union Center)	John Newman Co.	Elgin, Ill.	
363	Springbrook Cry. (Spragueville)	John Newman Co.	Elgin, Ill.	
364	Sterling Separator Cry. Co.	N. A. Hoffmann	Lamotte	J. M. Hoffman
365	St. Donatus Cry. Co.	Krier & Dupont	St. Donatus	P. J. Dupont
366	*Diamond Cry. (Balwin)	C. W. Simpson	Monticello	W. H. Hoan
367	Hansen Cold Storage Co.	E. D. Hansen	Maquoketa	Pat Haggerty
368	Springbrook Cry. Co.	John Newman Co.	Elgin, Ill.	J. S. Wing
369	Springbrook Cry. Co.	John Newman Co.	Elgin, Ill.	A. W. Hoan
370	Springbrook Cry. (Andrew)	John Newman Co.	Elgin, Ill.	C. R. Crawford
JASPER COUNTY—				
371	Baxter Dairy Co.	H. Krampe	Baxter	H. C. Schettler
372	Newburg Cry. Co.	G. D. Alden	Newburg	H. E. Webb
JEFFERSON COUNTY—				
373	Fairfield Cry. Co.	Jacob Roth	Fairfield	Geo. Y. Ross
374	Four Corners Cry. (Four Corners)	E. B. Cole	Lockridge	E. B. Cole
375	Elmwood Cry. Co.	John McLane	Fairfield	John McLane
JONES COUNTY—				
376	Fawn Creek Cry. Co.	J. S. Condit	Anamosa	Wm. Gierhart
377	Clover Leaf Cry. Co.	J. P. Polkorte	Monticello	Wm. Gierhart
378	Amber Cry. (Amber)	Jas. P. Younger	Chicago, Ill.	Frank Nickel
379	Center Junction Creamery (Center Junction)	Jas. P. Younger	Chicago, Ill.	A. E. Robertson
380	Hale Cry. Co.	C. E. Walston	Hale	W. H. Brownell
381	Langworthy Co-op. Cry. Co.	L. B. Batchelder	Langworthy	W. H. Batchelder
382	Martelle Cry. Co.	S. C. Batchelder	Martelle	S. C. Batchelder
383	Klondyke Cry. Co.	R. Bohren	Monticello	Fred Lehman
384	Diamond Cry. Co.	C. W. Simpson	Monticello	J. J. Brunner
385	*Diamond Cry. (Wyo.)	C. W. Simpson	Monticello	
386	*Diamond Cry. Co.	C. W. Simpson	Monticello	
387	*Diamond Cry. Co.	C. W. Simpson	Monticello	
388	*Diamond Cry. (Wyo.)	C. W. Simpson	Monticello	
389	*Diamond Cry. (Oxford Junction)	C. W. Simpson	Monticello	
390	Valley Co-op. Cry. Co.	J. D. Neelans	Onslow	F. M. Huyck
391	Old Cry. Co.	Geo. D. Hogue	Old	Wm. Evans
392	Scotch Grove Co-op. Cry. Co.	H. R. Jacobs	Scotch Grove	J. M. Woellert
393	Wyo. Cry. Co. (Wyo.)	Jas. P. Younger	Chicago, Ill.	
394	Downerville Farmers' Cry. Co.	C. L. Perry	Monticello	C. R. Wilder
395	Burk Cry. Co.	C. L. Perry	Anamosa	C. L. Perry
KOSUTH COUNTY—				
396	Algona Co-op. Cry. Co.	A. W. Sterzbach	Algona	A. W. Sterzbach
397	Plum Creek Cry. Co.	W. G. Hopkins	Algona	A. W. Sterzbach
398	Burt Co-op. Cry. Co.	A. Daa	Burt	D. L. Driver
399	Hancock Co-op. Cry. Co.	John Bernhardt	Bancroft	A. J. Doleschal
400	Fenton Cry. Co.	C. G. Newell	Fenton	H. W. Pettibone



## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
<b>KOSKUTH COUNTY—Continued.</b>				
401	Germania Co-op. Cry. Co.	M. J. Dyer	Germania	M. J. Dyer
402	Hobart Cry. (Hobart)	Wester Bros.	Wesley	P. W. Johnson
403	Irrington Co-op. Cry.	J. L. Bedell	Irrington	C. A. Nurell
404	LuVerne Co-op. Cry.	E. W. Hanna	LuVerne	W. H. Raney
405	Lone Rock Co-op. Cry. Co.	Wm. Dehnert	Lone Rock	J. T. Hanna
406	Farmers' Co-op. Cry. Assn.	E. J. Skinner	Ledyard	H. M. Dyer
407	Seneca Co-op. Creamery (Ringsted)	M. Jensen	Fenton	F. A. Erickson
408	Sexton Cry. (Sexton)	Wester Bros.	Wesley	W. N. Anderson
409	Farmers' Co-op. Cry. Co.	L. J. Wegman	St. Benedict	F. J. Domayer
410	Saint Joseph Co-op. Creamery (Livermore)	E. C. Clark	Bode	Christ Bogn
411	Sven City Co-op. Cry.	E. L. Anderson	Sven City	B. S. Nelson
412	Thionka Cry.	L. C. Peterson	Woden	Louis Mortenson
413	Lotta Creek Co-op. Cry.	Aug. Boettcher	Lone Rock	D. L. Godden
414	Whittemore Cry. Co.	H. P. Hatch	Whittemore	A. M. Whitney
415	Wesley Cry.	Wester Bros.	Wesley	H. F. Hollenbeck
<b>LEE COUNTY—</b>				
416	The S. P. Pond Co.	C. S. Pond	Keokuk	Chas. Leibfarth
<b>LINN COUNTY—</b>				
417	Birk Cry.	C. L. Perry	Anamosa	C. L. Perry
418	Central City Cry.	P. W. Sawyer	Central City	P. W. Sawyer
419	Valley Farm Cry.	P. G. Henderson	Central City	R. Richardson
420	Cogson Cry.	J. J. McAreary	Cogson	J. J. McAreary
421	North Side Cry.	W. H. Trefz	Cogson	C. S. Payne
422	Gurley-Barth Cry.	A. J. Barth	C. C. McNe	C. C. McNe
423	Center Point Cry.	Derlinger-Pollock	Center Point	C. N. Pollock
424	Ely & Western Cry.	Frank J. Dolezal	Ely	Wm. Lipavsky
425	Ely & Western Cry. (College)	Frank J. Dolezal	Ely	Wm. Lipavsky
426	Springville Cry.	C. E. Batchelder	Springville	C. E. Batchelder
427	Springville Cry. (Parsons)	C. E. Batchelder	Springville	C. E. Batchelder
428	Troy Mills Cry.	J. M. Tupper	Troy Mills	J. M. Tupper
429	Highland Cry. Co. (Troy Mills)	John Tehl	Walker	G. R. Batchelder
430	Waubesa Cry.	Bates & Hemenway	Waubesa	H. C. Hemenway
431	Walker Cry.	H. J. Nietert	Walker	S. W. Laird
432	*Diamond Cry. Co. (Prairieburg)	C. W. Simpson	Monticello	
<b>LYON COUNTY—</b>				
433	George Cry.	H. P. Jennings	George	T. H. Lund
434	*George Cry. (Larchwood)	H. P. Jennings	George	T. H. Lund
435	*George Cry. (Matlock)	H. P. Jennings	George	T. H. Lund
436	Littlerock Mtl. Co-op. Cry.	K. E. Stenzel	Little Rock	W. O. Dubs
437	Inwood Cry.	L. M. Foote	Inwood	Henry Nelson
<b>MAHASKA COUNTY—</b>				
438	New Sharon Cry.	A. R. Hardesty	New Sharon	Harry Marney
439	Oskaloosa Cry.	C. H. Hinman	Oskaloosa	John Metzger
<b>MARION COUNTY—</b>				
440	Pella Cry. Co.	D. R. Rhysburger	Pella	T. Smorenberg
<b>MARSHALL COUNTY—</b>				
441	Minerva Valley Cry. Assn.	H. P. Clemmons	Clemmons	G. R. Jackman
442	Dunbar Cry. Co.	O. J. Olson	Dunbar	C. C. Bomberger
443	Liscomb Cheese Co.	Thos. E. Culp	Liscomb	Thos. E. Culp
444	State Center Farmers' Cry. Assn.	C. Hansen	State Center	G. T. Shaluce
445	Farmers' Cry. Co.	C. W. Rankin	St. Anthony	G. R. Price

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
<b>MITCHELL COUNTY—</b>				
446	David Co-op. Cry. Assn.	Mrs. F. N. Griffin	David	Wm. Bumberger
447	Rock Creek Co-op. Cry. Assn. (Osage)	H. L. Johnson	Rudd	Sig Klemesrud
448	Farmers' Co-op. Cry. Co.	J. W. Clay	Osage	M. M. Handin
449	Riceville Co-op. Cry. Assn.	F. J. Carpenter	Riceville	A. B. Grover
450	Stacyville Cry. Co.	J. B. Spensley & Co.	Stacyville	J. A. Spensley
451	Farmers' Co-op. Cry. Co.	E. M. Tolleson	St. Ansgar	H. E. Fowler
452	Toeterville Co-op. Cry. Co.	L. C. Baker	Toeterville	A. M. Hodard
453	Farmers' Co-op. Cry. Co. (New Haven)	E. P. C. Sheldon	Elma	D. C. Thomas
454	Osage Co-op. Cry. Assn. (Osage)	Jno. Torsfeld	Mitchell	Geo. Dushane
455	McIntire Cry.	E. W. Kaericker	McIntire	A. Bartel
456	Little Cedar Cry.	Geo. Helfter	Osage	Geo. Helfter
<b>MONONA COUNTY—</b>				
457	Moorhead Cry.	P. D. Nelson	Moorhead	P. D. Nelson
<b>MONROE COUNTY—</b>				
458	Albia Cry.	Elder & Elder	Albia	W. A. Elder
<b>MUSCATINE COUNTY—</b>				
459	Nickel Plate Cry.	Geo. W. Kelley	Wilton Jet	J. C. Creswell
460	Iowa Condensed Milk Co.	S. G. McFadden	West Liberty	
<b>O'BRIEN COUNTY—</b>				
461	Caledonia Cry. Co. (Germant'n's)	Fred Haackman	Paulina	Wm. Gehris
462	Hartley Cry.	A. D. Rozeboom	Hartley	D. Collins
463	Pringhar Cry. (Pringhar)	A. W. Hubbard	Hinckley, Ill.	G. A. Bristol
464	Sheldon Cry.	A. Miller	Sheldon	C. B. Chandler
465	Union Cry. Co.	Wm. Strampe	Paulina	Wm. Strampe
<b>OSCEOLA COUNTY—</b>				
466	Ashton Cry.	C. W. Davis	Ashton	C. W. Davis
467	Allendorf Cry.	A. Klampe	Allendorf	A. Klampe
<b>PAGE COUNTY—</b>				
468	Clarinda, Poultry, Butter & Eggs Co.	W. W. Richardson	Clarinda	C. C. Anno
<b>PALO ALTO COUNTY—</b>				
469	Silver Lake Cry.	J. J. Martin	Ayrshire	Fred Shellman
470	Cylinder Cry.	E. W. Reid	Cylinder	E. W. Reid
471	Rush Lake Cry. Co.	J. H. McCreary	Curlaw	M. Anderson
472	Emmetsburg Cry. Co.	Lewis Stuchmer	Emmetsburg	N. H. Knudsen
473	Fairville Cry. Co. (Fairville)	Jos. Kliegl	Cylinder	W. D. Kucker
474	Lost Island Cry. Co. (Gruet-Hager)	L. C. Christensen	Emmetsburg	J. N. Bruck
475	Mallard Butter & Cheese Co.	F. C. Truog	Mallard	T. R. Wilson
476	Farmers' Co-op. Cry. Co.	F. L. Lamb	Graettinger	R. Nelson
477	Osage Co-op. Cry. Co. (Osage)	C. C. Thompson	Emmetsburg	Edgar Chadwick
478	Palo Alto Cry. Co. (Graettinger)	S. A. Smith	Ruthven	E. J. Remington
479	Farmers' Co-op. Cry. Co.	Chas. E. Vocum	Ruthven	A. L. Remington
480	Rodman Co-op. Cry. Co.	C. J. Frye	Rodman	C. M. Vohs
481	West Bend Co-op. Cry. Co.	A. L. Frye	West Bend	T. A. Clarke
482	Depeu Cry. Co.	R. Bucher	Cylinder, Ill.	Howard Gohr
<b>PLYMOUTH COUNTY—</b>				
483	Paynes Cry.	R. Payne	Kingsley	Ira Stuart
484	Grant Twp. Cry. Co.	Fred Kusch	LeMars	Jobe Kennedy

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
PLYMOUTH COUNTY—Continued.				
485	Rensen Cry. (Rensen)	A. W. Hubbard	Hinckley, Ill.	J. E. Clinck
486	*Hanford Produce Co (Merrill)	J. H. Whittemore	Sioux City	
487	*Hanford Produce Co (LeMars)	J. H. Whittemore	Sioux City	
POCAHONTAS COUNTY—				
488	Laurens Cry.	J. G. Hinn	Laurens	L. W. Johnson
489	Plover Cry.	H. Fitzgerald	Plover	Geo. Heathman
490	Gilt Edge Cry.	W. R. Rogers	Rolle	W. R. Rogers
491	Palmer Cry. Co.	Geo. Siebels	Palmer	
POLK COUNTY—				
492	Beatrice Cry. Co.	F. A. Leighton	Des Moines	F. G. Green
493	Grimes B. & C. Co.	W. J. Stewart	Grimes	W. H. Sampson
494	Des Moines Cry. Co.	B. S. Schernborn	Des Moines	W. S. Gould
495	Farmers' Co-op. Produce Co.	Keller J. Bell	Des Moines	W. E. Blood
496	Crystal Springs Cry.	MacRae Bros	Des Moines	Wm. McWilliams
POTTAWATTAMIE COUNTY—				
497	Waterloo Cry.	Leroy Corliss	Council Bluffs	A. C. Zimmerman
498	*Waterloo Cry. (Minden)	Leroy Corliss	Council Bluffs	
499	*Waterloo Cry. Co. (Underwood)	Leroy Corliss	Council Bluffs	
500	Prairie Rose Cry.	J. D. Lorentzen	Walnut, R2	Christ Back
POWESHIEK COUNTY—				
501	Springbrook Cry. (Guernsey)	John Newman Co.	Elgin, Ill.	O. W. Hicks
502	Springbrook Cry. (Montezuma)	John Newman Co.	Elgin, Ill.	John Kane
503	Grinnell Cry.	J. W. Fowler	Grinnell	Chas. Woodewise
504	Springbrook Cry. (Hartwick)	John Newman Co.	Elgin, Ill.	F. R. Palmer
505	Deep River Cry. Co.	Benj. Grier	Deep River	H. J. Goebel
SAC COUNTY—				
506	Early Cry.	Chas. A. Deremo	Early	C. E. Deremo
507	Herring Cry.	M. R. Wright	Herring	M. R. Wright
508	Lake View Cry.	Geo. O. Fisher	Lake View	Geo. O. Fisher
509	Delaware Center Cry. Co.	Clarke S. Seale	Nemadji	M. M. Lewis
510	Farmers' Cry. Co.	J. A. Cranston	Odebolt	W. J. Delger
511	Schaller Cry. (Schaller)	A. W. Hubbard	Hinckley, Ill.	M. J. Goodnow
512	Eden Cry. Co.	Wm. Hahn	Schaller	Elmer Wise
513	Wall Lake Cry.	Thos. Ahern	Wall Lake	D. A. Provost
514	Blue Grass Cry.	L. Hillman	Lytton	Geo. Hillman
SCOTT COUNTY—				
515	Star Cry.	J. H. Marriott	Long Grove	J. W. Blair
516	A. Wood Cry. Co.	F. A. Waugh	Davenport	R. K. Emily
SHELBY COUNTY—				
517	Corley Cry. Co. (Corley)	A. C. Dinesen	Avoca	P. F. Manuel
518	Earling Cry. Co.	M. P. Kuhl	Earling	M. B. Gibbons
519	Center Cry. Co.	Geo. H. Miller	Harlan	M. Jensen
520	Buck Valley Cry. Co.	R. Rasmussen	Harlan	P. Nyman
521	Danway Cry. Co.	H. Dahl	Sirkman	Julius Anderson
522	Clay Twp. Cry. (Elkhorn)	Peter H. Anderson	Marne	M. Ankersterne
523	Portsmouth Cry.	M. A. Sorenson	Portsmouth	Christ Back
524	Prairie Rose Cry.	J. D. Lorentzen	Walnut	
SIOUX COUNTY—				
525	Alton Cry.	Mueller Bros.	Alton	J. V. Mueller
526	Hosper's Cry.	Stoeve & Boler	Hosper	Emil Zoer
527	Hawarden Cry.	Mueller Bros.	Hawarden	Herman Seluckow
528	Hull Cry.	Rud. Christ	Hull	J. L. Curtis
529	Rock Valley Cry.	C. H. Day	Rock Valley	J. L. Clark
530	Jelgerhuis & Co. (Sioux Center)	Rud. Stensvad	Hull	E. Den Herder

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
STORY COUNTY—				
531	Iowa State College.	State Prof. G. L. McKay	Ames	John Bower
532	Cambridge Farmers' Co-op. Cry.	M. F. King	Cambridge	J. F. Burrett
533	Gilbert Farmers' Co-op.	C. P. Lake	Gilbert	C. P. Lake
534	Huxley Farmers' Co-op. Cry. Co.	A. H. Sheldahl	Huxley	P. J. Seveid
535	Roland Farmers' Cry.	L. T. Olson	Roland	Geo. Wick
536	Story City Far's Co-op. Cry. Co.	Alex. Henderson	Story City	K. J. Seveide
537	Farmers' Co-op. Cry. Co.	Andrew Maland	Slater	K. T. Naa
538	Zearing Cry. Co.	C. P. Bean	Zearing	C. N. Hart
539	Collins Cry.	H. K. Gronbeck	Collins	N. C. Nielson
TAMA COUNTY—				
540	Springbrook Cry. (Chelsea)	John Newman Co.	Elgin, Ill.	John Bucker
541	Springbrook Cry. (Elberon)	John Newman Co.	Elgin, Ill.	Chas. Bucker
542	Tama Co-op. Cry.	H. Bissell	Tama	W. H. Graham
TAYLOR COUNTY—				
543	Clearfield Cry.	Joe Doubt	Clearfield	Orle Gustin
544	Bedford Cry.	Frank Dunning	Bedford	Leslie Kloxop
545	Lenox Cry.	Thos. Dunlap	Lenox	Joe Davis
UNION COUNTY—				
546	Clarinda Poultry, B. & E. Co. (Creston)	W. W. Richardson	Clarinda	J. C. Hall
547	Farmers' Co-op. Cry. Co.	G. W. Kelley	Afton	
WAPELLO COUNTY—				
548	Blakesburg Cry.	Foland Bros	Blakesburg	Foland Bros.
549	Yorkshire Cry. Co.	R. N. Morrell	Ottumwa	H. A. Sherk
WARREN COUNTY—				
550	Carlisle Cry.	H. L. Owens	Carlisle	H. L. Owens
WASHINGTON COUNTY—				
551	Linwood Cry. (Wellman)	S. E. Relman	Keota	Herman Ritz
WAYNE COUNTY—				
552	Old Colony Cry.	J. L. Humphrey Jr.	Humeston	S. Peterson
WEBSTER COUNTY—				
553	Fort Dodge Cry. Co.	A. B. Sayles	Fort Dodge	
WENNERAGO COUNTY—				
554	Forest City Co-op. Cry. Assn.	John Carson	Forest City	C. C. Frank
555	*Forest City Co-op. Cry. Assn.	John Carson	Lake Mills	T. A. Storvick
556	Lake Mills Cry. Co.	J. A. Horvel	Lake Mills	
557	*Lake Mills Cry. Co. (Dahls Church)	J. A. Horvel	Lake Mills	
558	*Lake Mills Cry. Co. (Newton Twp.)	J. A. Horvel	Lake Mills	
559	*Lake Mills Cry. Co. (Mount Valley Twp.)	J. A. Horvel	Lake Mills	
560	Lincoln Co-op. Cry. Co.	E. B. Quamme	Scarsville	P. N. Peterson
561	Scarsville Cry. Assn.	E. K. M. Larson	Scarsville	Sorn Kristensen
562	Vinje Cry. Assn.	Nels Berg	Scarsville	E. A. Gudvangen
563	Eden Cry. Co.	E. I. Morck	Bricelyn, Minn.	Noris Erdal
564	Thompson Co-op. Cry. Assn.	H. Jacobs	Thompson	M. M. Topager
565	Buffalo Center Co-op. Cry. Bufalo Center)	L. C. Peterson	Woden	John Olsen



## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
<b>WINNEBAGO COUNTY—</b>				
506	Silver Creek Cry. Co.	Clayton A. Reed	Burr Oak	Victor Johnson
507	Calmar Cry.	A. E. Boe	Calmar	Iver Barlow
508	Ice Cave Cry.	Johnson & Kjome	Decorah	Ole Olson
509	Ft. Atkinson Cry. Co. (Ft. Atkinson)	H. R. Carpenter	Elkader	H. B. Fortney
510	Festina Cry. Co. (Festina)	H. A. Dessel	Calmar	Henry Hesse
511	Highland Cry.	Bidne & Akre	Highlandville	P. J. Bidne
512	Rock Springs Cry. Co. (Highlandville)	P. M. Peterson	Spring Grove	
513	Kendallville Cry.	N. H. Nelson	Calmar	P. M. Peterson
514	Nordness Cry. Co.	C. J. Thorgrimson	Decorah	Ed Holmes
515	Red Oak Cry. Co. (Nordness)	N. E. Ramsey	Decorah	Geo. H. Thune
516	Silver Spring Cry. Co. (Ossian)	M. J. Nicholson	Decorah	Hans Foss
517	L. T. Foase & Sons	L. T. Foase	Ridgeway	Ole Hauge
518	Lincoln Farmers' Co-op. Cry. Co.	A. W. Prann	Ridgeway	O. A. Foase
				G. A. Bakken
<b>WOODBURY COUNTY—</b>				
519	Hanford Produce Co.	J. H. Whittemore	Sioux City	W. O. Wheelock
<b>WORTH COUNTY—</b>				
520	Fertile Co-op. Dairy Co.	E. J. A. Johnson	Fertile	J. A. Johnson
521	Nordland Cry. Co.	P. R. Hammer	Joice	A. H. Nelson
522	Danville Cry. Co.	M. O. Bray	Kensett	Gilbert Olson
523	Farmers' Co-op. Cry. Co.	E. R. Stock	Manly	B. C. Ditt
524	Lorenzen Bros. Cry.	Lorenzen Bros.	Meltonville	N. E. Lorenzen
525	Farmers' Butter & Cheese Assn.	M. D. Johnson	Northwood	R. S. Bergsather
526	Hartland Dairy Assn. (Emmons, Minn.)	E. L. Loberg	Northwood	A. M. Hanson
527	Brookfield Cry. Assn.	E. A. Tenold	Northwood	J. P. K. Jensen
528	Lake Mills Cry. Co. (Bristol Tp.)	J. A. Horvel	Lake Mills	
529	Tenold Cry. Assn.	S. O. Vold	Northwood	N. O. Dahlen
<b>WRIGHT COUNTY—</b>				
530	Norway Co-op. Cry. Co.	C. J. Baxter	Belmond	C. H. Vanderham
531	Clarion Cry. Assn.	O. P. Morton	Clarion	Ira O'Neil
532	Fountain Cry. Co.	DeWitt Goodrich	Goldfield	John M. Beck
533	Galt Cry. Co.	A. K. Ketchum	Galt	John Taylor
534	Rowan Co-op. Cry. Assn.	E. V. Campbell	Rowan	E. V. Campbell
535	Eagle Grove Cry. Co.	C. Massey	Eagle Grove	
536	Palisville Cry. Co.		Palisville	

## IOWA CHEESE FACTORY LIST.

e—Co-operative. s—Stock. i—Individual.				
Office record number	Name of Cheese Factory	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Cheesemaker
<b>BREMER COUNTY—</b>				
1	Janesville Cheese Factory	Geo. V. Fowler	Waterloo	John McMurray
<b>CASS COUNTY—</b>				
2	Lewis Cheese Factory	Smart & Dehan	Lewis	M. E. Dehan
<b>CERRO GORDO COUNTY—</b>				
3	Burchinal Cheese Factory	T. R. Coates	Burchinal	T. R. Coates
<b>CRAWFORD COUNTY—</b>				
4	Astor Cheese Factory	O. A. Olson	Astor	Arthur Williams
<b>CLARKE COUNTY—</b>				
5	Weldon Cheese Factory	L. M. Parr	Weldon	L. M. Parr
<b>FLOYD COUNTY—</b>				
6	Elm Springs Cheese Factory	H. D. White	Charles City	W. B. Pfeiffer
<b>GREENE COUNTY—</b>				
7	Dana Mutual Co-op. Crm. Co.	W. J. Elling	Dana	W. J. Elling
<b>GUTHRIE COUNTY—</b>				
8	Jamaica Cheese Factory	Goreham & Coon	Jamaica	Goreham & Coon
<b>HARDIN COUNTY—</b>				
9	Ellis Cheese Factory	W. I. Clark	Iowa Falls	W. I. Clark
<b>HOWARD COUNTY—</b>				
10	Cresco Cheese Factory	Wm. Kellow	Cresco	Wm. Kellow
11	Clover Leaf Cheese Factory	J. J. House	Cresco	J. J. House
<b>JEFFERSON COUNTY—</b>				
12	Pleasant Plain Cheese Factory	F. L. Rynor	Pleasant Plain	F. L. Rynor
<b>KEOKUK COUNTY—</b>				
13	Talleyrand Cheese Factory	L. M. Tucker	Talleyrand	Clifton Tucker
<b>LEE COUNTY—</b>				
14	Franklin Station Cheese Factory	Chas. Klinger	Donnellson	A. W. Newell
<b>MONROE COUNTY—</b>				
15	Bone Cheese Factory	S. G. Bone	Albia	S. G. Bone

## IOWA CHEESE FACTORY LIST—CONTINUED.

Office record number	Name of Cheese Factory	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Cheesemaker
	MARSHALL COUNTY—			
16	Liscomb Cheese Factory.....	Thos. E. Culp .....	Liscomb .....	Thos. E. Culp
	MUSCATINE COUNTY—			
17	Muscatine French Cheese Co.....	Fritz Kolb.....	Wilton Junct. ....	Homer Carson
	POWESHIEK COUNTY—			
18	Jacobs Cheese Factory .....	L. A. Windhurst..	Jacobs.....	S. M. Payne
	SCOTT COUNTY—			
19	Wapsie Cheese Factory.....	C. A. Pope.....	Princeton .....	C. A. Pope
	STORY COUNTY—			
20	Iowa State College.....	State Prof. G. L. McKay	Ames.....	
	TAYLOR COUNTY—			
21	Sharpsburg Cheese Factory.....	G. S. Eastlack.....	Sharpsburg .....	G. S. Eastlack
22	Blockton Cheese Factory.....	D. T. Waldrup.....	Blockton .....	D. T. Waldrup
	WASHINGTON COUNTY—			
23	Leet Cheese Factory.....	W. E. Leet.....	West Chester .....	W. E. Leet
24	Clay Cheese Factory.....	D. A. Meacham.....	Richland .....	W. H. Spencer
	WAYNE COUNTY—			
25	Sewall Cheese Factory.....	Ira Banta.....	Sewall .....	D. Kelso
26	Lineville Cheese Factory.....	Matthew DeHaan.....	Lineville .....	Matthew DeHaan
27	Seymour Cheese Factory.....	K. A. Weagley.....	Seymour .....	R. E. Spencer

## LIST OF RENOVATED BUTTER FACTORIES.

No.	County	Firm Name	Location
1	Calhoun .....	Andrew Wood Co.....	Rockwell City
2	Dallas .....	Smith Produce Co.....	Redfield
3	Des Moines .....	Iowa Grain and Produce Co.	Burlington
4	Lee .....	S. P. Pond Co.....	Keokuk
5	Polk .....	E. M. Ellingson & Co.....	Des Moines
6	Polk .....	Schermerhorn-Shotwell Co.	Des Moines
7	Polk .....	McRae Bros.....	Des Moines
8	Scott.....	A. Wood Creamery Co.....	Davenport
9	Scott.....	Armour & Co.....	Humeston
10	Wayne.....	James L. Humphrey Jr.....	Humeston
11	Woodbury .....	N. R. Hathaway.....	Sioux City

## RAILROAD BUTTER SHIPMENTS.

The following table shows the number of pounds of butter, net, shipped from each county in the State to points outside the State, which is found by subtracting sixteen per cent of the gross weight as reported by the railroads of the State. This department is under obligations to the freight officials of the different railroads for furnishing us these figures.

TABLE SHOWING NET POUNDS OF BUTTER SHIPPED OUT OF THE STATE, AS REPORTED BY THE RAILROADS, FOR THE YEAR ENDING SEPTEMBER 30, 1906.

Counties	1905	1906	Increase	Decrease
Adair .....	1,351,358	1,079,890		251,468
Adams .....	34,234	85,444		51,210
Allamakee .....	1,293,597	1,408,626		115,029
Appanoose .....	357	32		325
Audubon .....	1,327,357	1,186,008		141,349
Benton .....	457,983	750,850		292,867
Black Hawk .....	1,338,071	1,450,132		112,061
Boone .....	49,078	53,466		4,388
Bremer .....	2,785,237	2,473,678		311,559
Buchanan .....	1,322,334	3,086,132		1,763,798
Buena Vista .....	1,006,203	1,321,824		315,621
Butler .....	1,554,725	2,253,228		698,503
Calhoun .....	1,070,783	1,531,484		460,701
Carroll .....	1,926,332	2,020,441		99,109
Cass .....	291,247	256,432		34,815
Cedar .....	294,171	250,940		43,231
Cerro Gordo .....	1,263,355	884,721		378,634
Cherokee .....	270,689	615,811		345,122
Chickasaw .....	2,146,074	2,468,570		322,496
Clarke .....	20,756	10,367		10,389
Clay .....	676,754	1,213,297		536,543
Clayton .....	3,149,753	3,373,250		223,497
Clinton .....	656,448	1,127,963		471,515
Crawford .....	1,064,439	1,083,100		18,661
Dallas .....	561,107	647,464		86,357
Davis .....	1,024			1,024
Decatur .....	84,048			84,048
Delaware .....	2,474,109	2,740,122		266,013
Des Moines .....	324,177	250,565		73,612
Dickinson .....	483,315	739,958		256,643
Dubuque .....	2,569,853	2,271,530		298,323
Emmet .....	597,097	644,165		47,068
Fayette .....	2,395,684	2,765,049		369,365
Floyd .....	77,425	54,367		22,058
Franklin .....	783,309	122,854		660,455
Fremont .....				
Greene .....	68,571	157,570		88,999



TABLE SHOWING NET POUNDS OF BUTTER SHIPPED—CONTINUED.

Counties	1905	1906	Increase	Decrease
Grundy	1,008,893	844,965		163,928
Guthrie	97,488	806,143	708,655	
Hamilton	1,470,090	1,400,683		69,407
Hancock	772,070	888,867	116,797	
Hardin	1,631,311	1,784,839	153,542	
Harrison	39,600	36,345		3,255
Henry	13,009	12,438		571
Howard	1,049,955	806,384		243,571
Humboldt	663,433	657,326		6,107
Ia	219,124	451,622	232,498	
Iowa	494,717	653,054	158,337	
Jackson	1,543,515	1,594,125	50,610	
Jasper	131,522	87,169		44,353
Jefferson	155,454	146,734		8,720
Johnson	37,044	43,250	6,206	
Jones	2,286,216	2,752,833	1,466,617	
Keokuk	106,278	194,030	87,752	
Kossuth	1,929,405	2,423,033	493,628	
Lee	2,404,326	2,963,265	1,558,939	
Linn	1,636,302	1,734,369	98,067	
Louis	17,163	14,009		3,154
Lucas	101,523	1,016		100,507
Lyons	348,060	592,720	244,660	
Madison	3,318	61,743	58,425	
Malaska	70,722	81,743	11,021	
Marion	212,729	105,526		107,203
Marshall	465,589	387,086		78,503
Mills	4,301	13,440	9,139	
Mitchell	1,784,208	1,582,822		201,386
Monona	45,267	121,596	76,329	
Monroe	47,633	85,884	38,251	
Montgomery	37,591			37,591
Muscatine	32,828	39,393	6,565	
O'Brien	832,883	702,780		130,103
Osceola	526,754	207,138		319,616
Page	2,389,885	645,033		1,744,852
Palo Alto	1,084,465	2,303,861	1,219,396	
Plymouth	460,097	908,641	448,544	
Pocahontas	300,666	622,391	321,725	
Polk	5,837,811	5,112,540		725,271
Pottawattamie	541,130	284,351		256,779
Poweshiek	357,812	85,202		272,610
Ringold	100,625	160,625	60,000	
Sac	635,307	926,510	291,203	
Scott	235,652	397,432	161,780	
Shelby	445,672	574,071	128,399	
Sioux	1,569,576	1,762,771	193,195	
Story	875,894	850,033		25,861
Tama	486,272	386,111		100,161
Taylor	978,588	1,289,510	310,921	
Union	1,301,753	1,353,396	51,643	
Van Buren	45,669	37,620		8,049
Wapello	253,105	408,224	155,119	
Warren	1,108	2,966	1,858	
Washington	36,321	41,335	5,014	
Wayne	939,923	906,758		33,165
Webster	592,117	643,096	50,979	
Winnebago	969,207	1,426,035	456,788	
Winneke	1,919,209	1,957,822	38,613	
Woodbury	5,073,201	6,342,346	1,269,145	
Worth	702,345	788,180	85,835	
Wright	582,230	1,185,515	603,285	
Total	91,007,054	98,184,607	16,544,115	9,366,562

COUNTIES SHIPPING MORE THAN 1,000,000 POUNDS, NET, OF BUTTER IN THE YEAR ENDING SEPTEMBER 30, 1906.

1906	Counties	1905
6,342,346	Woodbury	5,073,201
5,117,540	Polk	5,837,811
3,903,363	Lee	2,404,326
3,752,833	Jones	2,286,216
3,098,132	Buchanan	1,823,534
2,746,040	Fayette	2,263,084
2,740,122	Delaware	2,474,100
2,473,078	Bremer	2,735,237
2,468,070	Chickasaw	2,146,074
2,429,053	Kossuth	1,929,405
2,373,250	Clayton	1,849,763
2,363,861	Palo Alto	1,084,465
2,371,330	Pubaque	2,539,853
2,235,228	Butler	1,954,725
2,029,441	Carroll	1,526,832
1,957,822	Winneke	1,919,209
1,784,833	Hardin	1,631,311
1,762,771	Sioux	1,569,576
1,734,859	Linn	1,086,802
1,594,125	Jackson	1,543,515
1,582,822	Mitchell	1,784,208
1,531,484	Calhoun	1,070,785
1,480,132	Black Hawk	1,308,071
1,468,026	Allamakee	1,253,597
1,429,055	Bureau Vista	969,207
1,400,683	Hamilton	1,470,090
1,382,286	Union	1,301,753
1,321,824	Bureau Vista	1,000,303
1,289,510	Taylor	978,588
1,215,707	Clay	676,754
1,186,008	Andover	1,057,683
1,185,515	Wright	582,230
1,127,063	Clinton	626,448
1,068,109	Crawford	1,004,439
1,070,890	Adair	1,301,358
74,968,191	Total	67,962,044

These thirty-five counties ship 76% of the 98,184,607 net pounds of butter shipped from the State.

TABLE SHOWING TOTAL NET BUTTER SHIPMENTS OF THE STATE  
FOR THE YEARS 1890 TO 1906, INCLUSIVE, FROM IOWA TO  
POINTS OUTSIDE THE STATE; ALSO INCREASE OR DECREASE  
AS COMPARED WITH THE YEAR PRECEDING.

Years Ending October 1st.	Net pounds of butter shipped	Increase over preceding year	Decrease from preceding year
1890.....	71,355,796		
1891.....	68,690,716		2,565,080
1892.....	69,112,931		8,577,785
1893.....	54,572,902		5,540,029
1894.....	54,569,417		63,485
1895.....	66,497,108	11,987,691	
1896.....	80,032,916	13,535,808	
1897.....	89,630,881	9,597,965	
1898.....	75,364,337		6,255,744
1899.....	76,620,326	1,255,989	
1900.....	71,719,329		4,910,997
1901.....	74,853,328	3,134,000	
1902.....	72,714,584		2,138,744
1903.....	77,079,794	4,365,210	
1904.....	75,389,260		1,690,534
1905.....	91,051,531	15,662,271	
1906.....	98,184,607	7,133,076	

## INDEX.

	PAGE
Letter of transmittal .....	3
New creamery buildings .....	6
New dairy laws .....	7
Growth of the centralizing idea .....	11
Cream shipping rates to points outside the State .....	12
Average wages of buttermakers .....	14
Assistant dairy commissioners .....	15
Pasteurization of skimmed milk .....	16
Table—Monthly average on fancy western creamery butter .....	18
City milk inspection .....	19
Table II—Showing number pounds of butter made .....	20
Table III—Showing number creameries reported .....	22
Creamery list .....	24
Cheese factory list .....	38
List of renovated butter factories .....	38
Railroad butter shipments .....	39
Table net butter shipments 1890-1906 .....	42